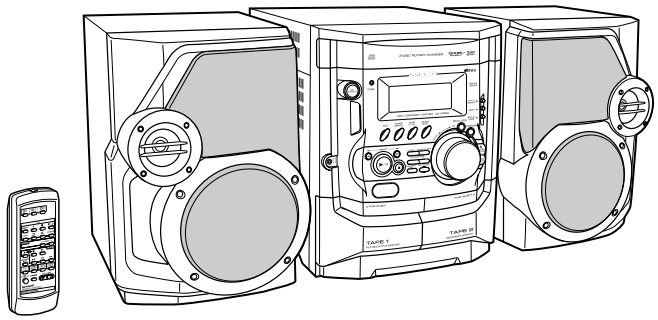
SHARP SERVICE MANUAL

No. S4226CDXP500H



MINI COMPONENT SYSTEM

MODEL CD-XP500H

CD-XP500H Mini Component System consisting of CD-XP500H (main unit) and CP-XP500H (speaker system).

COMPACT disc DIGITAL AUDIO

R·D·S

CD-R/RW Playable

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6W

3 DISC

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

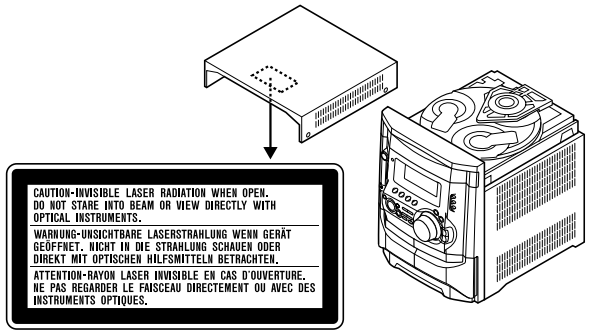
SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class 1 Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

(1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
(2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
(3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
(4) Under no circumstances look directly into the Pickup Lens at any time.
(5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW


CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.
ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES INSTRUMENTS OPTIQUES.

ADVERSEL-SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.

VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.

VARNING-SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

CD-XP500H

■ General

Power source	AC 230 V, 50 Hz
Power consumption	Power on: 140 W Power stand-by: 0.6 W (*)
Dimensions	Width: 270 mm (10-5/8") Height: 330 mm (13") Depth: 360 mm (14-3/16")
Weight	8.6 kg (18.9 lbs.)

(*) This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode.

■ Amplifier

Output power	PMPO: 1,080 W MPO: 540 W (270 W + 270 W) (DIN 45 324) RMS: 300 W (150 W + 150 W) (DIN 45 324) RMS: 260 W (130 W + 130 W) (DIN 45 500)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms

■ CD player

Type	3-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz

■ Cassette deck

Frequency response	50 - 14,000 Hz (Normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.35 % (DIN 45 511)

CP-XP500H

Type	Twin-Drive speaker system 5 cm (2") Tweeter 13 cm (5-1/8") Woofer × 2
Maximum input power	300 W
Rated input power	150 W
Impedance	6 ohms
Dimensions	Width: 220 mm (8-11/16") Height: 330 mm (13") Depth: 280 mm (11")
Weight	4.7 kg (10.3 lbs.)/each

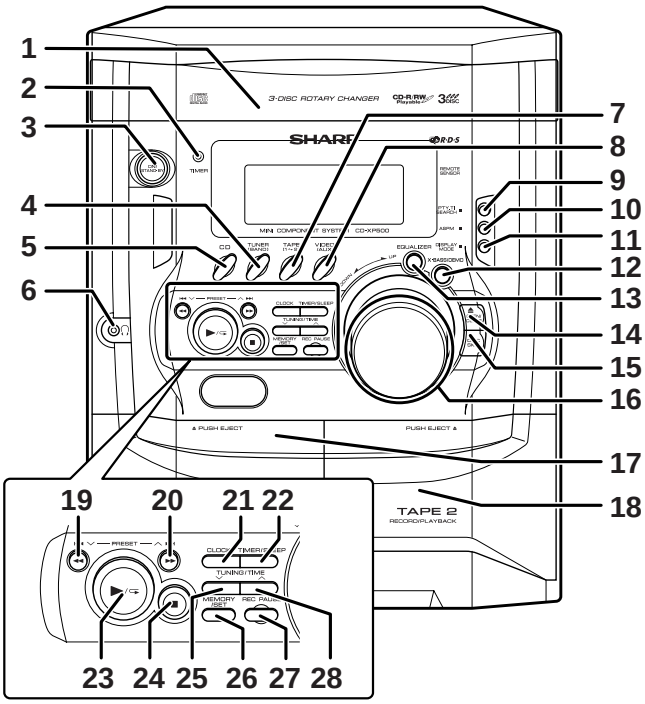
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

CD-XP500H

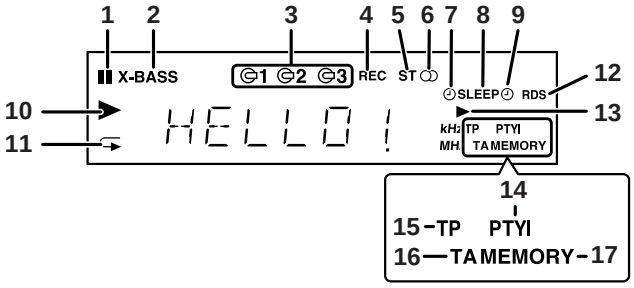
■ Front panel

1. Disc Tray
2. Timer Set Indicator
3. On/Stand-by Button
4. Tuner (Band) Button
5. CD Button
6. Headphone Socket
7. Tape (1 ← 2) Button
8. Video/Auxiliary Button
9. RDS Programme Type/Traffic Information Search Button
10. RDS ASPM (Auto Station Programme Memory) Button
11. RDS Display Mode Selector Button
12. Extra Bass/Demo Mode Button
13. Equaliser Mode Select Button
14. Disc Tray Open/Close Button
15. Disc Skip Button
16. Volume Control
17. Tape 1 Cassette Compartment
18. Tape 2 Cassette Compartment
19. CD Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down Button
20. CD Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up Button
21. Clock Button
22. Timer/Sleep Button
23. CD Play or Repeat, Tape Play Button (with Indicator)
24. CD or Tape Stop Button (with Indicator)
25. Tuning and Time Down Button
26. Memory/Set Button
27. Tape 2 Record Pause Button
28. Tuning and Time Up Button



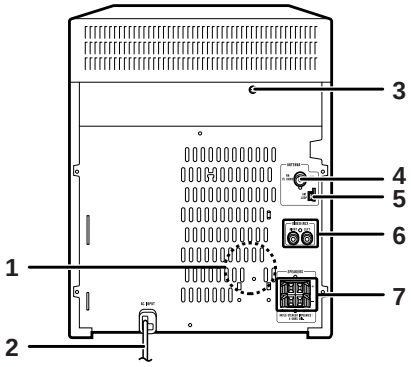
■ Display

1. CD Pause Indicator
2. Extra Bass Indicator
3. Disc Number Indicators
4. Tape 2 Record Indicator
5. FM Stereo Mode Indicator
6. FM Stereo Receiving Indicator
7. Timer Play Indicator
8. Sleep Indicator
9. Timer Recording Indicator
10. CD Play Indicator
11. CD Repeat Play Indicator
12. RDS Indicator
13. Tape Play Indicator
14. Dynamic PTY Indicator
15. Traffic Programme Indicator
16. Traffic Announcement Indicator
17. Memory Indicator



■ Rear panel

1. Cooling Fan
2. AC Power Lead
3. Transport Screw
4. FM 75 Ohms Aerial Socket
5. AM Loop Aerial Socket
6. Video/Auxiliary (Audio Signal) Input Sockets
7. Speaker Terminals

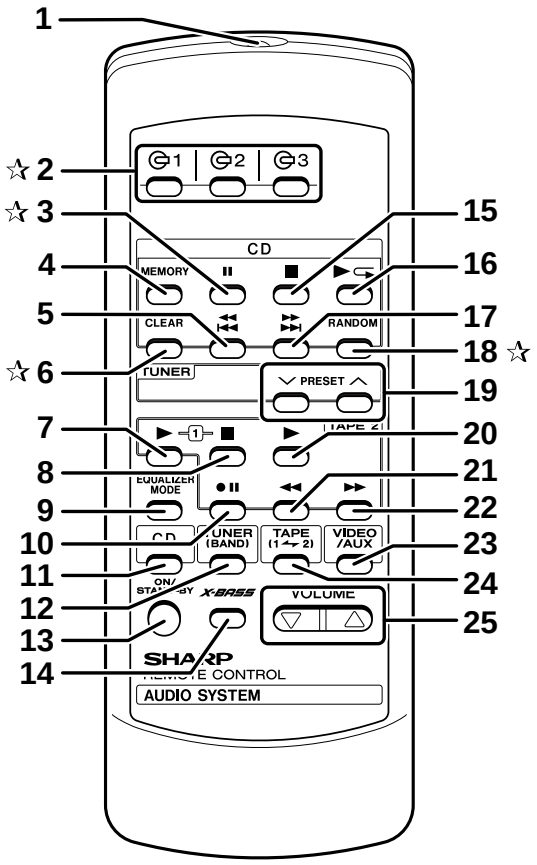


CD-XP500H

■ Remote control

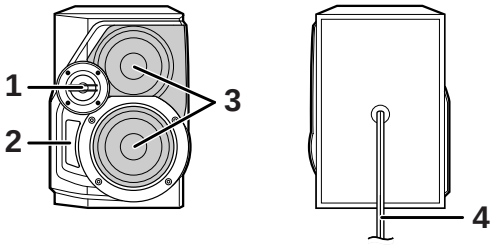
1. Remote Control Transmitter
2. Disc Number Select Buttons
3. CD Pause Button
4. CD Memory Button
5. CD Track Down or Fast Reverse Button
6. CD Clear Button
7. Tape 1 Play Button
8. Tape 1/Tape 2 Stop Button
9. Equaliser Mode Select Button
10. Tape 2 Record Pause Button
11. CD Button
12. Tuner (Band) Button
13. On/Stand-by Button
14. Extra Bass Button
15. CD Stop Button
16. CD Play or Repeat Button
17. CD Track Up or Fast Forward Button
18. CD Random Button
19. Tuner Preset Up and Down Buttons
20. Tape 2 Play Button
21. Tape 2 Rewind Button
22. Tape 2 Fast Forward Button
23. Video/Auxiliary Button
24. Tape (1 ⇄ 2) Button
25. Volume Up and Down Buttons

Buttons with "☆" mark in the illustration can be operated on the remote control only.



CP-XP500H

1. Tweeter
2. Bass Reflex Duct
3. Woofer
4. Speaker Wire



DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

CD-XP500H

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	5-1
2	Side Panel (Left/Right)	1. Screw ..... (B1) x8	5-1
3	CD Tray Cover/ CD Player Unit	1. Turn on the power supply, open the disc tray, take out the CD tray cover, and close. (Note 1) 2. Screw ..... (C1) x1 3. Hook ..... (C2) x3 4. Hook ..... (C3) x2 5. Socket ..... (C4) x2	5-2
4	Rear Panel with Fan Motor	1. Screw ..... (D1) x8 2. Socket ..... (D2) x1	5-2
5	Main PWB	1. Screw ..... (E1) x3 2. Socket ..... (E2) x3 3. Flat Cable ..... (E3) x1 4. Flat Wire ..... (E4) x1	5-2, 6-1 6-1
6	Front Panel	1. Screw ..... (F1) x2 2. Hook ..... (F2) x2 3. Socket ..... (F3) x1	6-1
7	Display PWB	1. Knob ..... (G1) x1 2. Screw ..... (G2) x16 3. Flat Cable ..... (G3) x1	6-2
8	Tape Mechanism	1. Open the cassette holder. 2. Screw..... (H1) x5	6-2
9	Headphones PWB	1. Screw ..... (J1) x1	6-2
10	Turntable	1. Hook ..... (K1) x2 2. Cover ..... (K2) x1	6-3
11	Loading Tray	1. Turn fully the lock lever in the arrow direction. 2. Push the loading tray backward to engage the claw with the groove and remove it in the direction of the arrow. .. (L1) x6	5-3 6-4
12	CD Servo PWB (Note 2)	1. Screw ..... (M1) x2 2. Hook ..... (M2) x1 3. Socket ..... (M3) x4	6-5
13	CD Mechanism	1. Hook ..... (N1) x2 2. Hook ..... (N2) x2	6-6

Note 1: How to open the changer manually. (Fig. 5-3)

1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading tray bottom.
2. After that, push forward the loading tray.

Note 2:

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electro-static damage.

Note 3:

1. Be careful not to break the claw of the CD mechanism.
2. When fining back the cam gear assembly, let it lock by front movement.

CD-XP500H

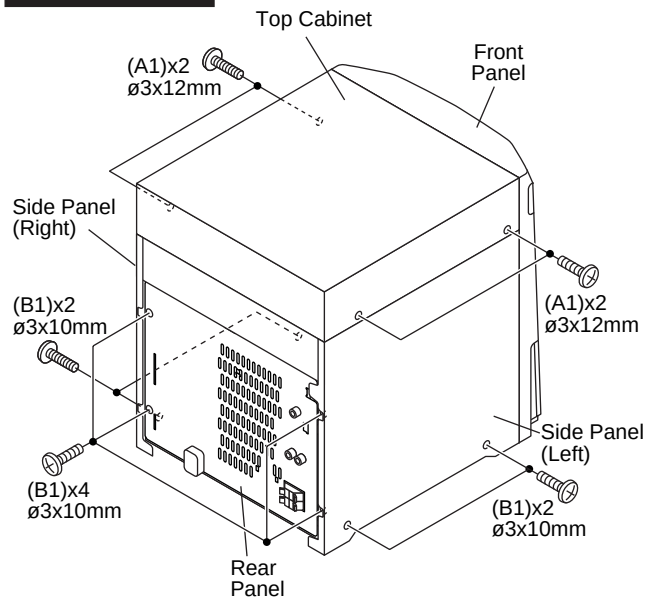


Figure 5-1

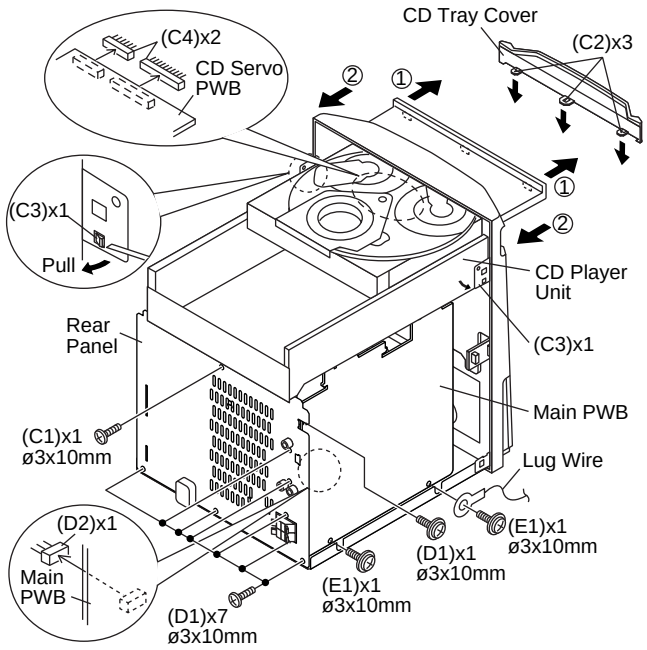


Figure 5-2

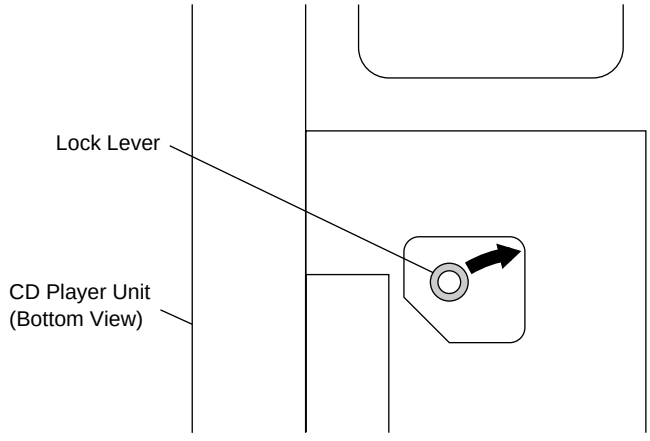


Figure 5-3

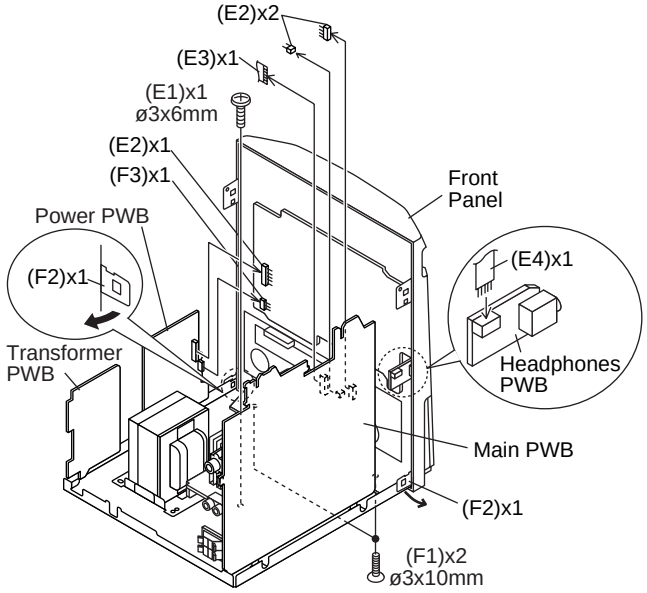


Figure 6-1

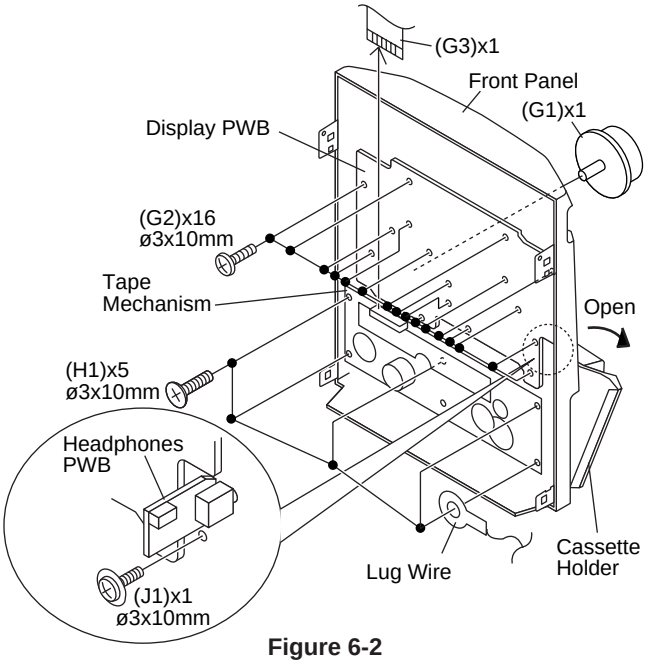


Figure 6-2

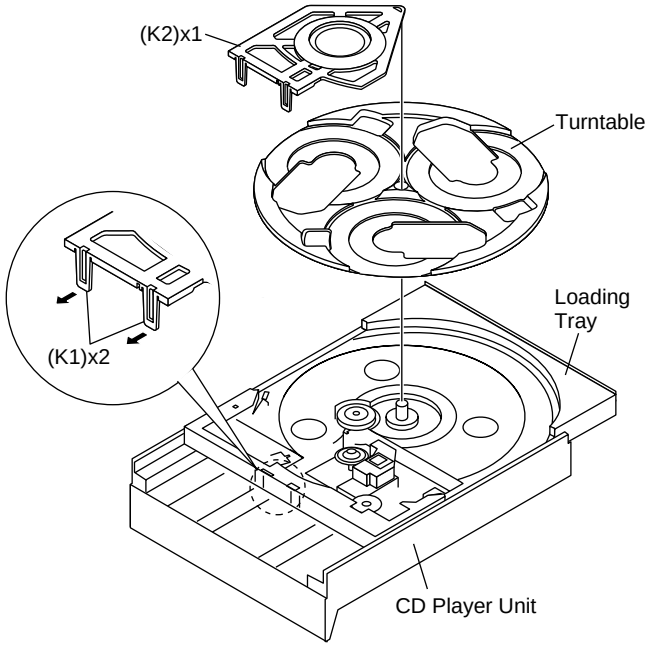


Figure 6-3

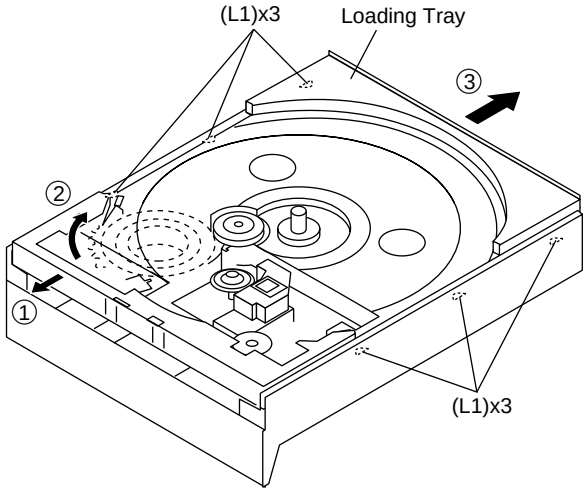


Figure 6-4

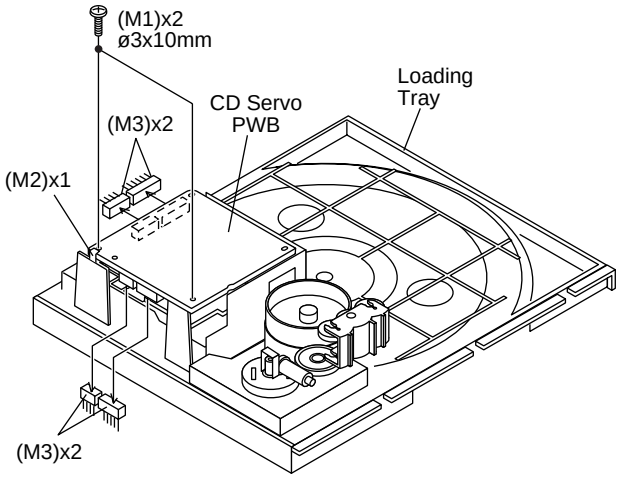


Figure 6-5

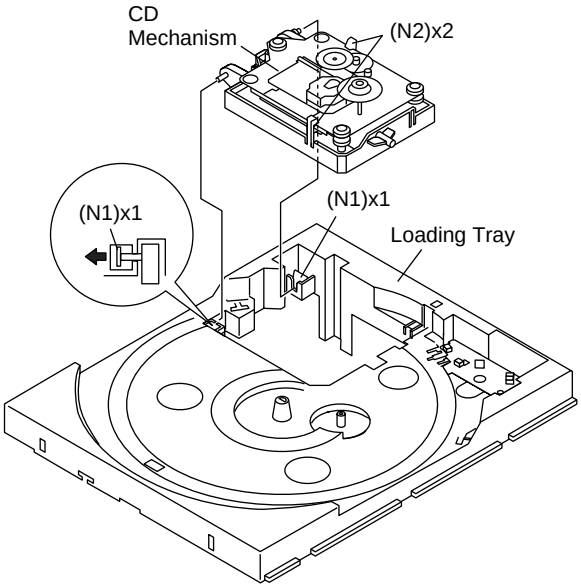


Figure 6-6

CP-XP500H

STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofer	1. Front Panel ..... (A1) x1 2. Screw ..... (A2) x8	7-1 7-2
2	Tweeter	1. Screw ..... (B1) x2	7-2

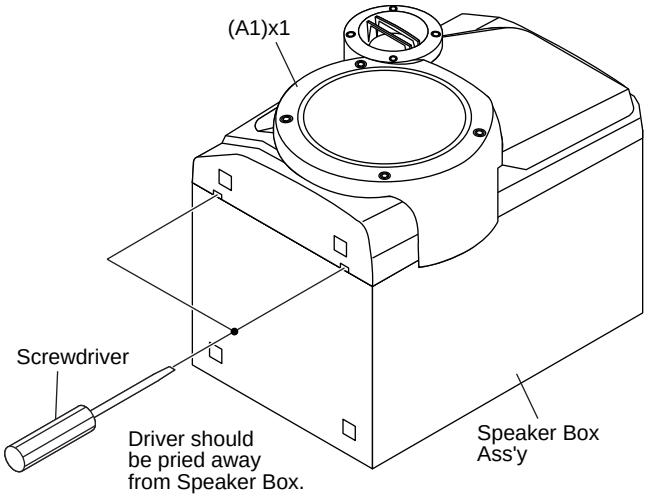


Figure 7-1

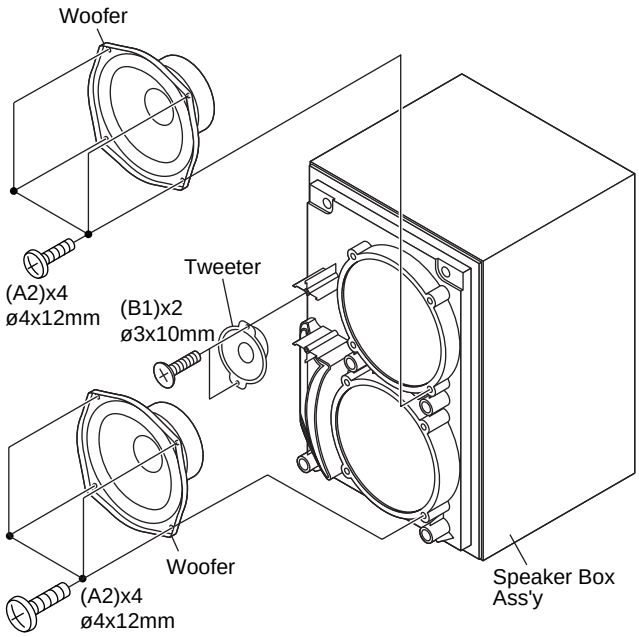


Figure 7-2

REMOVING AND REINSTALLING THE MAIN PARTS

TAPE MECHANISM SECTION

Perform steps 1 to 6 and 8 of the disassembly method to remove the tape mechanism.

How to remove the record/playback and erase heads (TAPE 2) (See Fig. 8-1)

1. When you remove the screws (A1) x 2 pcs., the record/playback head and three-dimensional head of the erasing head can be removed.

How to remove the playback head (TAPE 1) (See Fig. 8-2)

1. When you remove the screws (B1) x 2 pcs., the playback head can be removed.

How to remove the pinch roller (TAPE 1/2) (See Fig. 8-3)

1. Carefully bend the pinch roller pawl in the direction of the arrow **<A>**, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow **<B>**.

Note:
When installing the pinch roller, pay attention to the spring mounting position.

How to remove the belt (TAPE 2) (See Fig. 8-4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

How to remove the belt (TAPE 1) (See Fig. 8-4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

How to remove the motor (See Fig. 8-5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

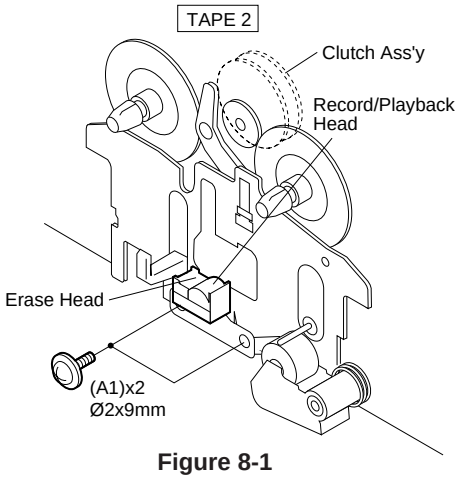


Figure 8-1

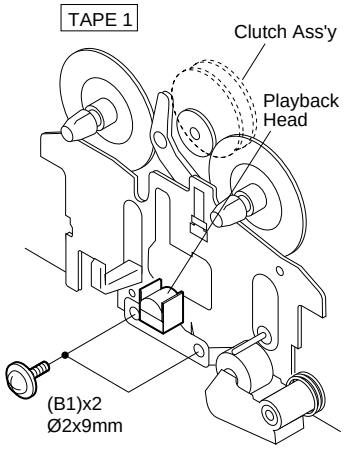


Figure 8-2

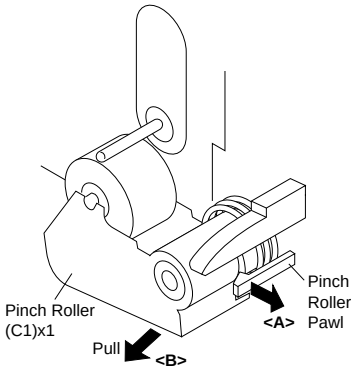


Figure 8-3

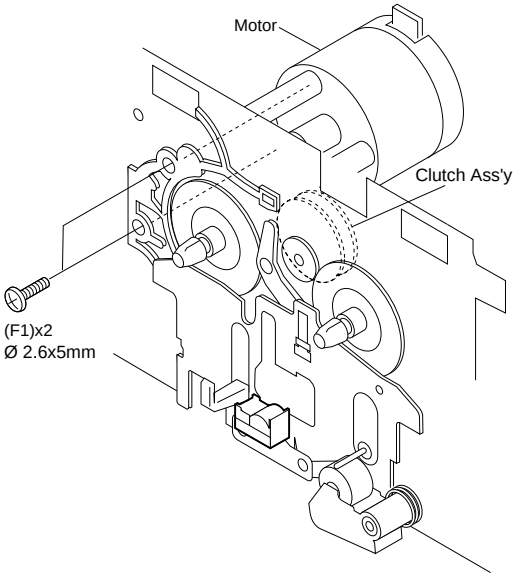


Figure 8-5

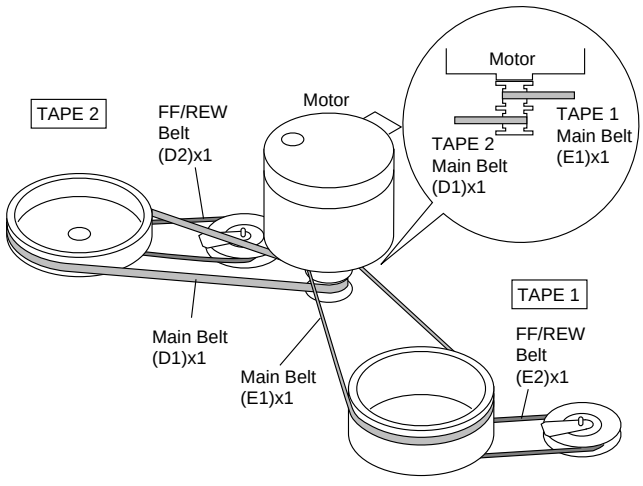


Figure 8-4

CD MECHANISM SECTION

Perform steps 1, 2, 3, 10, 11, 12 and 13 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 9-1)

1. Bend the hooks (A1) x 5 pcs., to remove the loading motor.

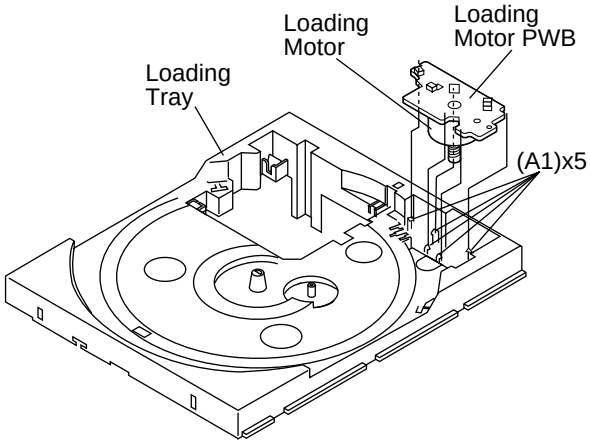


Figure 9-1

How to remove the pickup (See Fig. 9-2)

1. Remove the stop washer (B1) x 1 pc., to remove the gear (B2) x 1 pc.
2. Remove the screws (B3) x 2 pcs., to remove the shaft (B4) x 1 pc.
3. Remove the pickup.

Note

After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

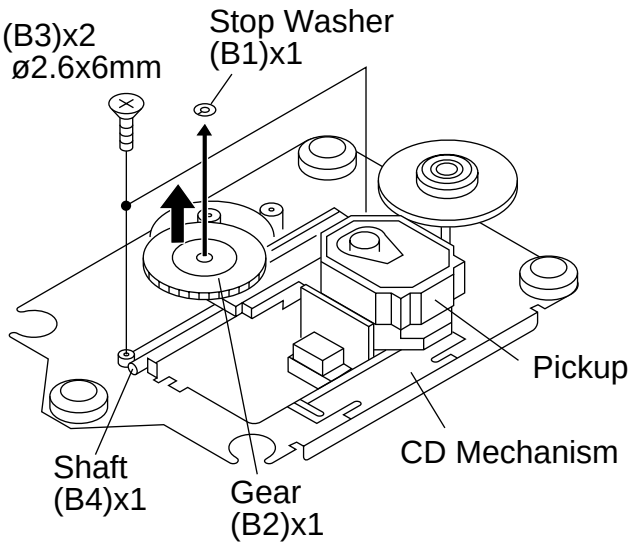


Figure 9-2

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	3,000 ± 30 Hz	Speaker Terminal (Load resistance: 6 ohms)

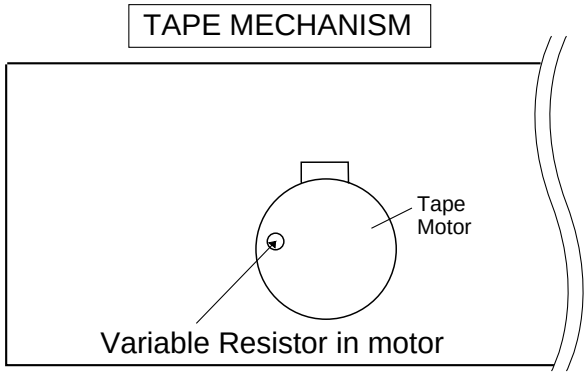


Figure 9-3

TUNER SECTION

fL: Low-range frequency
fH: High-range frequency

- **AM IF/RF**

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,620 kHz	T351	*1
AM Band Coverage	—	522 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

*1. Input: Antenna Output: TP302
*2. Input: Antenna Output: TP301

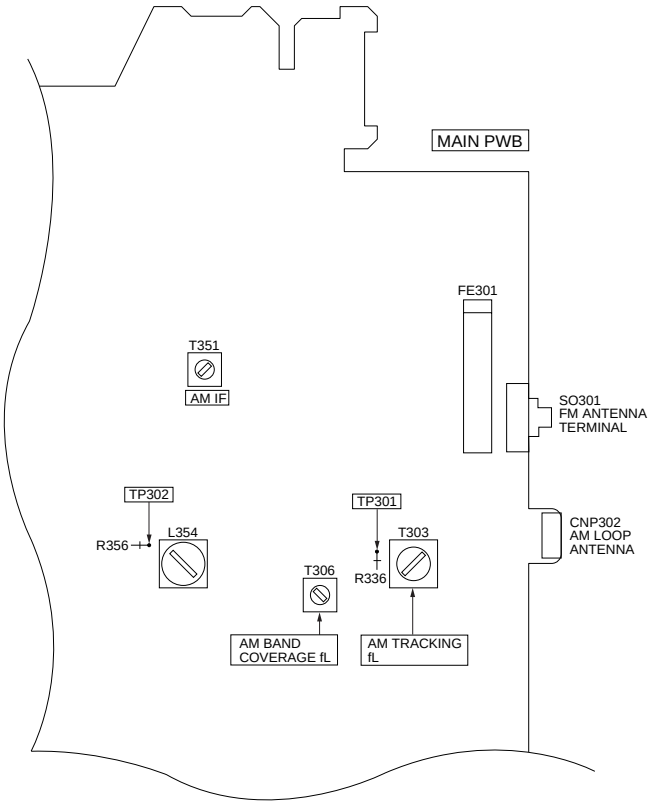


Figure 10-1 ADJUSTMENT POINTS

- **FM IF**

Notes:

1. Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
2. The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually.

CD SECTION

- **Adjustment**

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.

Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

Items adjusted automatically

(1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
  * Focus offset adjustment
  * Tracking offset adjustment

(2) Tracking balance adjustment (waveform drawing Fig. 10-2 EFBL)

(3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0 dB.)
  * Focus gain adjustment
  * Tracking gain adjustment

CD ERROR CODE DESCRIPTION

Error	Explanation
01	When Pickup set inner position, inner switch cannot detect 'ON' level for 10 secs.
10*	When tray moves to Open/Close, Open/Close switch cannot detect 'ON' level for 7 secs. When disc table rotate to target position. Clamp switch cannot detect 'ON' level for 7 secs.
11*	When disc table set to Disc1 position for 1 st time, "CLAMP SW", "DISC NO SW" and "OPEN/CLOSE" cannot detect 'ON' level for 14 secs.
31	When it changes to CD function, DSP cannot read initial data.

* 'CHECKING'

If Error is detected, 'CHECKING' will be display instead of 'ER-CD**' display. 'ER-CD**' display will only be display when error had been detected for the 5 th times.

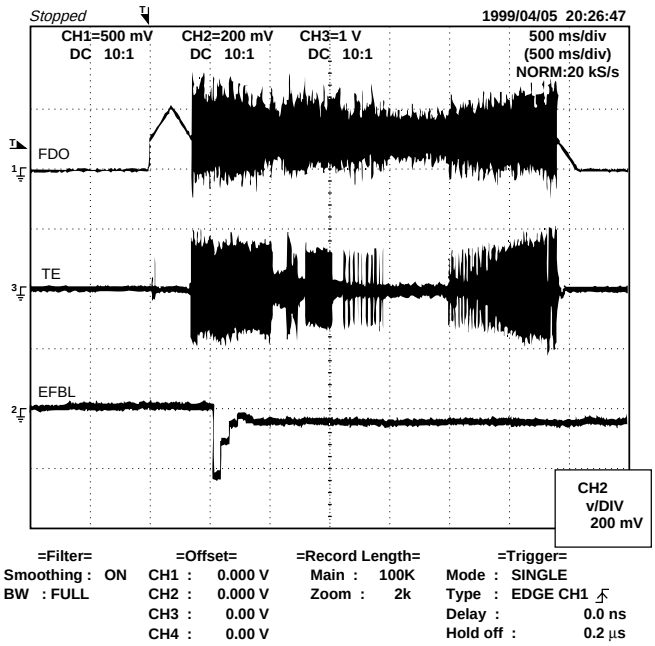
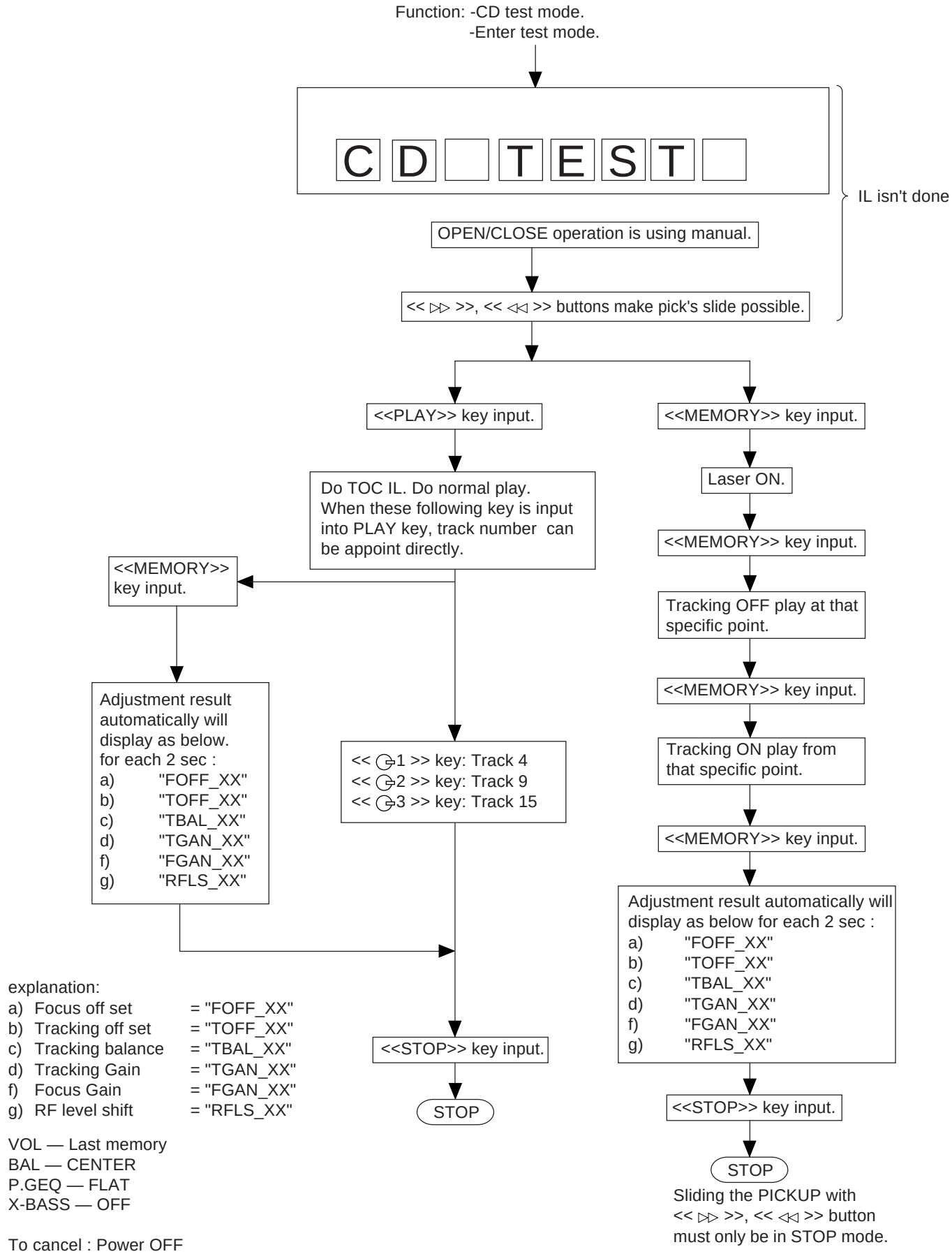


Figure 10-2

TEST MODE

• **Setting the test mode**

Any one of test mode can be set by pressing several keys as follows.
<X-BASS> + <CD> + <POWER> TEST: CD operation test.


Function: -CD test mode.
-Enter test mode.
C D T E S T
IL isn't done
OPEN/CLOSE operation is using manual.
<< ▷▷ >>, << ◁◁ >> buttons make pick's slide possible.
<<PLAY>> key input.
<<MEMORY>> key input.
Do TOC IL. Do normal play.
When these following key is input into PLAY key, track number can be appoint directly.
Laser ON.
<<MEMORY>> key input.
<<MEMORY>> key input.
Tracking OFF play at that specific point.
Adjustment result automatically will display as below.
for each 2 sec :
a) "FOFF_XX"
b) "TOFF_XX"
c) "TBAL_XX"
d) "TGAN_XX"
f) "FGAN_XX"
g) "RFLS_XX"
<< 1 >> key: Track 4
<< 2 >> key: Track 9
<< 3 >> key: Track 15
<<MEMORY>> key input.
Tracking ON play from that specific point.
<<MEMORY>> key input.
Adjustment result automatically will display as below for each 2 sec :
a) "FOFF_XX"
b) "TOFF_XX"
c) "TBAL_XX"
d) "TGAN_XX"
f) "FGAN_XX"
g) "RFLS_XX"
<<STOP>> key input.
STOP
<<STOP>> key input.
STOP
Sliding the PICKUP with << ▷▷ >>, << ◁◁ >> button must only be in STOP mode.

explanation:

a) Focus off set = "FOFF_XX"
b) Tracking off set = "TOFF_XX"
c) Tracking balance = "TBAL_XX"
d) Tracking Gain = "TGAN_XX"
f) Focus Gain = "FGAN_XX"
g) RF level shift = "RFLS_XX"

VOL — Last memory
BAL — CENTER
P.GEQ — FLAT
X-BASS — OFF

To cancel : Power OFF

Standard Specification of Stereo System Error Message Display Contents

Error Contents		DISPLAY	Notes
TAPE	Mechanism Error.	'ER-TA**'	00: Tape Mechanism Error. 01: Initial Error. 02: 03:
CD	Pickup Mechanism Error.	'ER-CD**'	01: PU-IN SW Detection NG. 02: 03: 04:
	CD Changer Mechanism Error.	'ER-CD**' (*)	10: Changer Error. 11: Initial Error. 12: 13:
	CD DSP Communication Error	'ER-CD**'	31: DSP COMMUNICATION ERROR
	Focus Not Match.	'NO DISC'	
	IL Time Over.	'NOT READ'	
TUN	PLL Unlock.	'ER-TU**'	00: TUN Error. 01: PLL Unlock. 02: 03:

(*) CHECKING:
If CD changer mechanism error is detected, 'CHECKING' will be display instead of 'ER-CD**' display 'ER-CD**' will only be display when CD changer mechanism error had been detected for the 5 th times.

Speaker abnormal detection and +B PROTECTION display
In case speaker abnormal detection or +B PROTECTION had occurred, it can be check by pressing 'POWER', 'VIDEO' and 'X-BASS' key twice. Display will show "S** B**". S is referring to speaker abnormal detection and B is referring to +B PROTECTION. ** is in hex valve.

+B PROTECTION is condition when irregular process occur on power supply line.

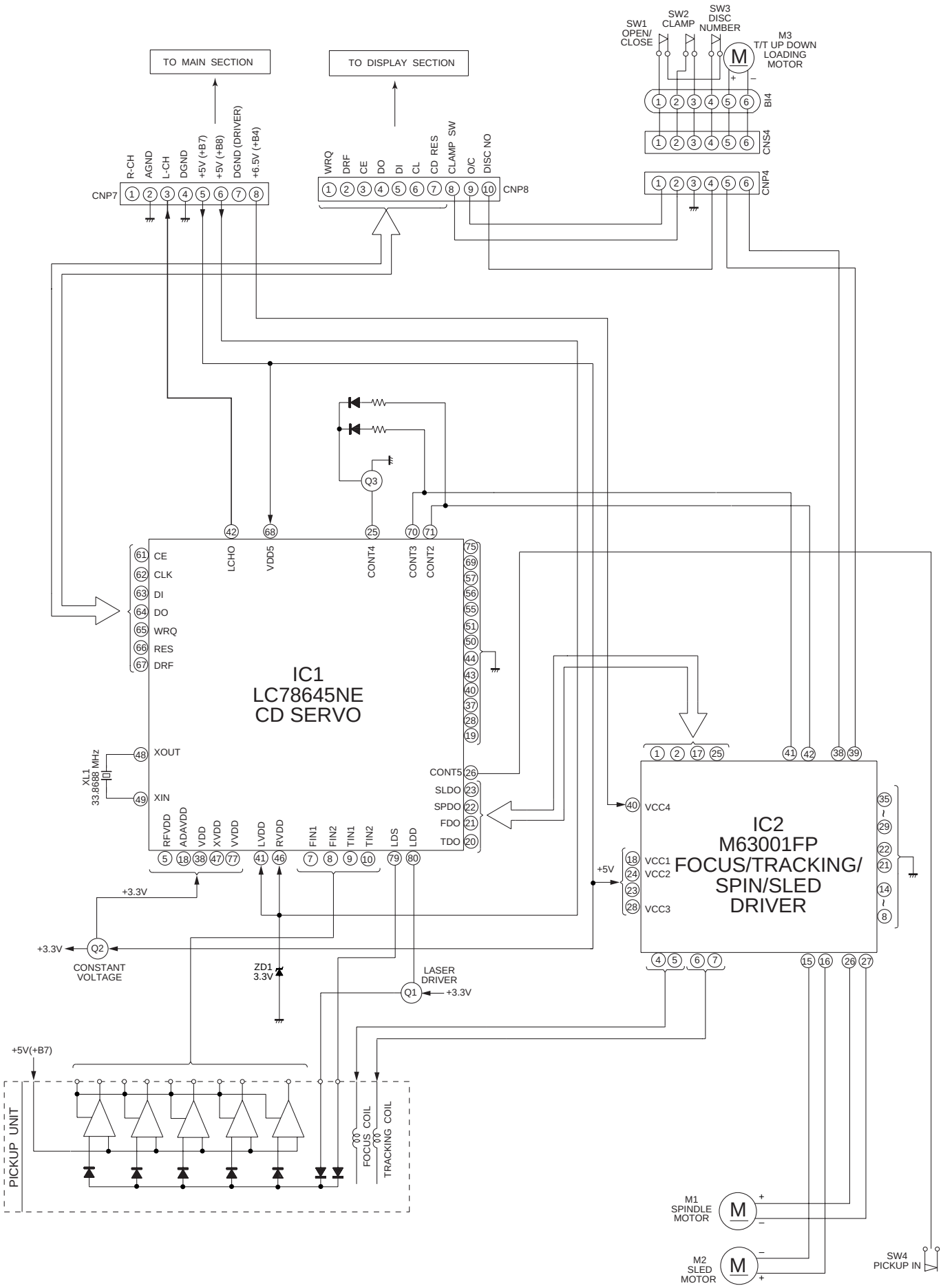


Figure 13 BLOCK DIAGRAM (1/3)

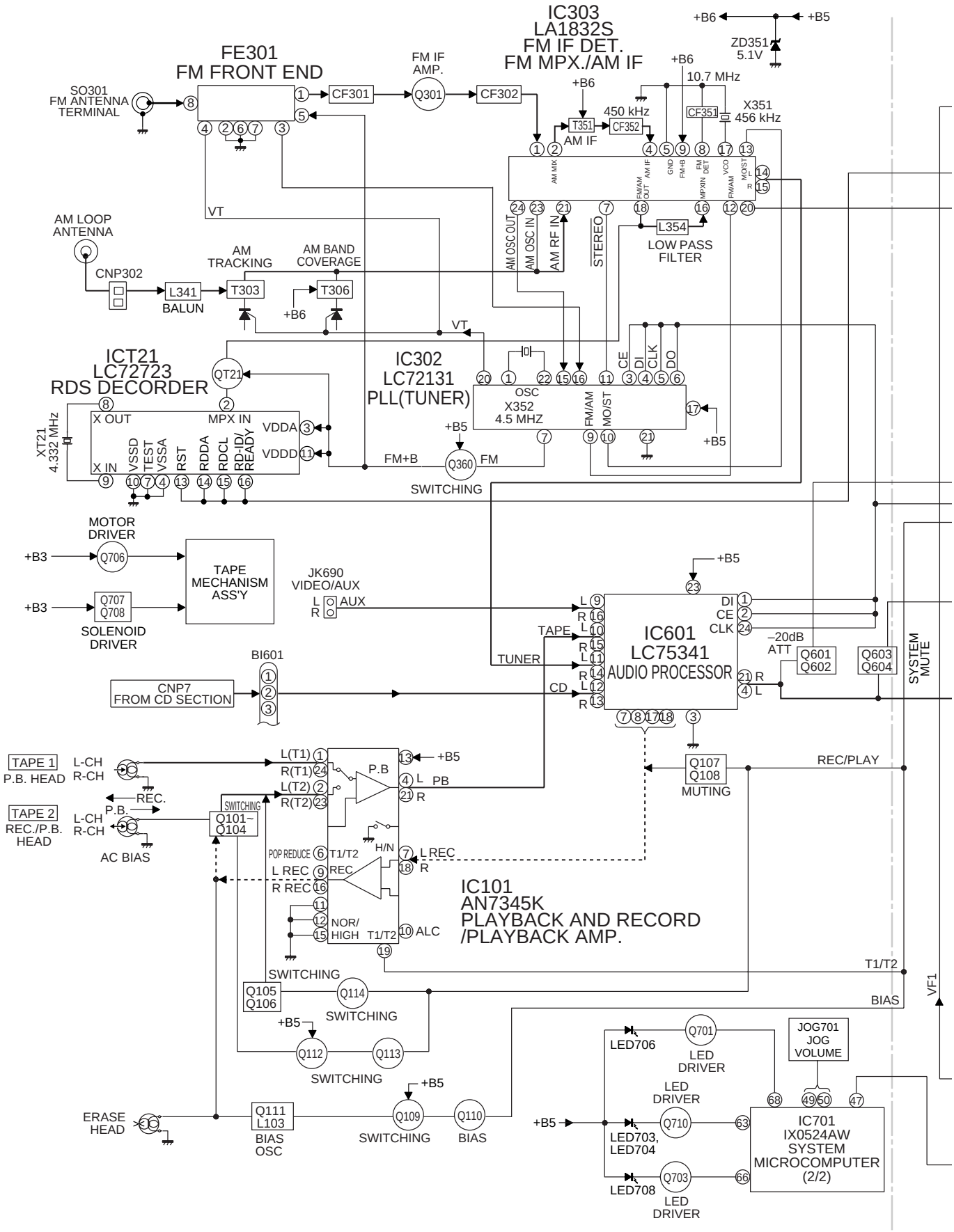


Figure 14 BLOCK DIAGRAM (2/3)

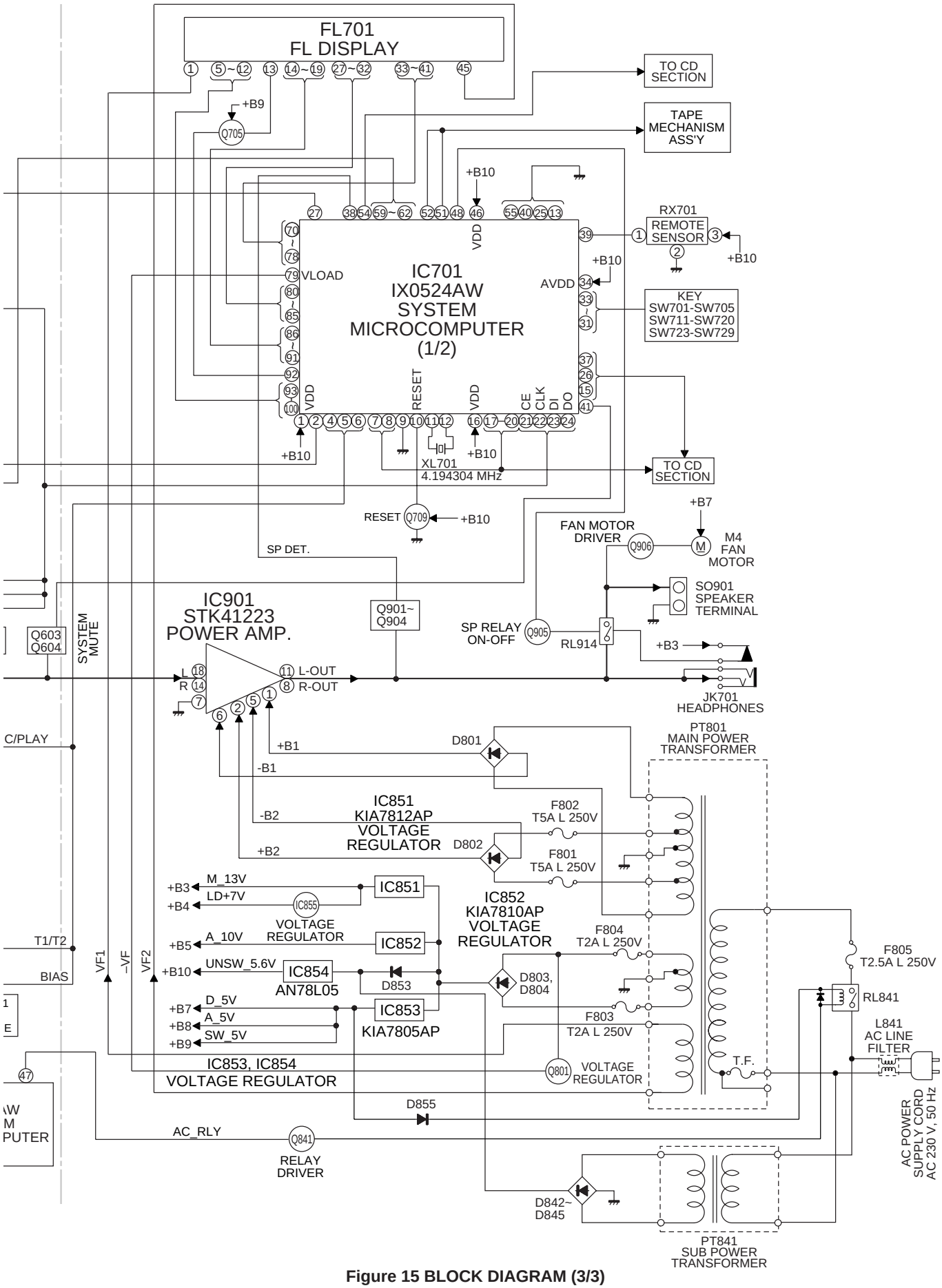
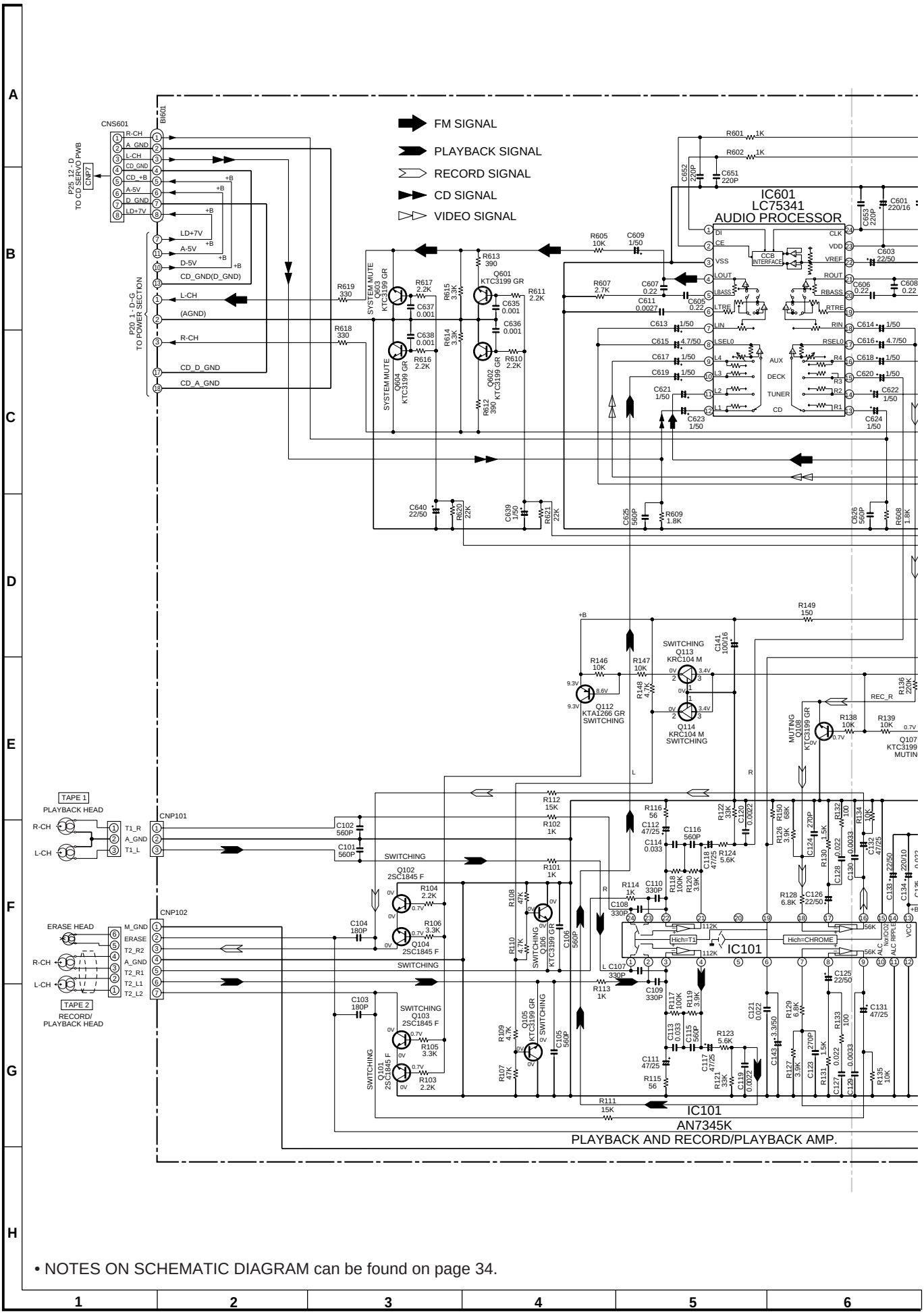
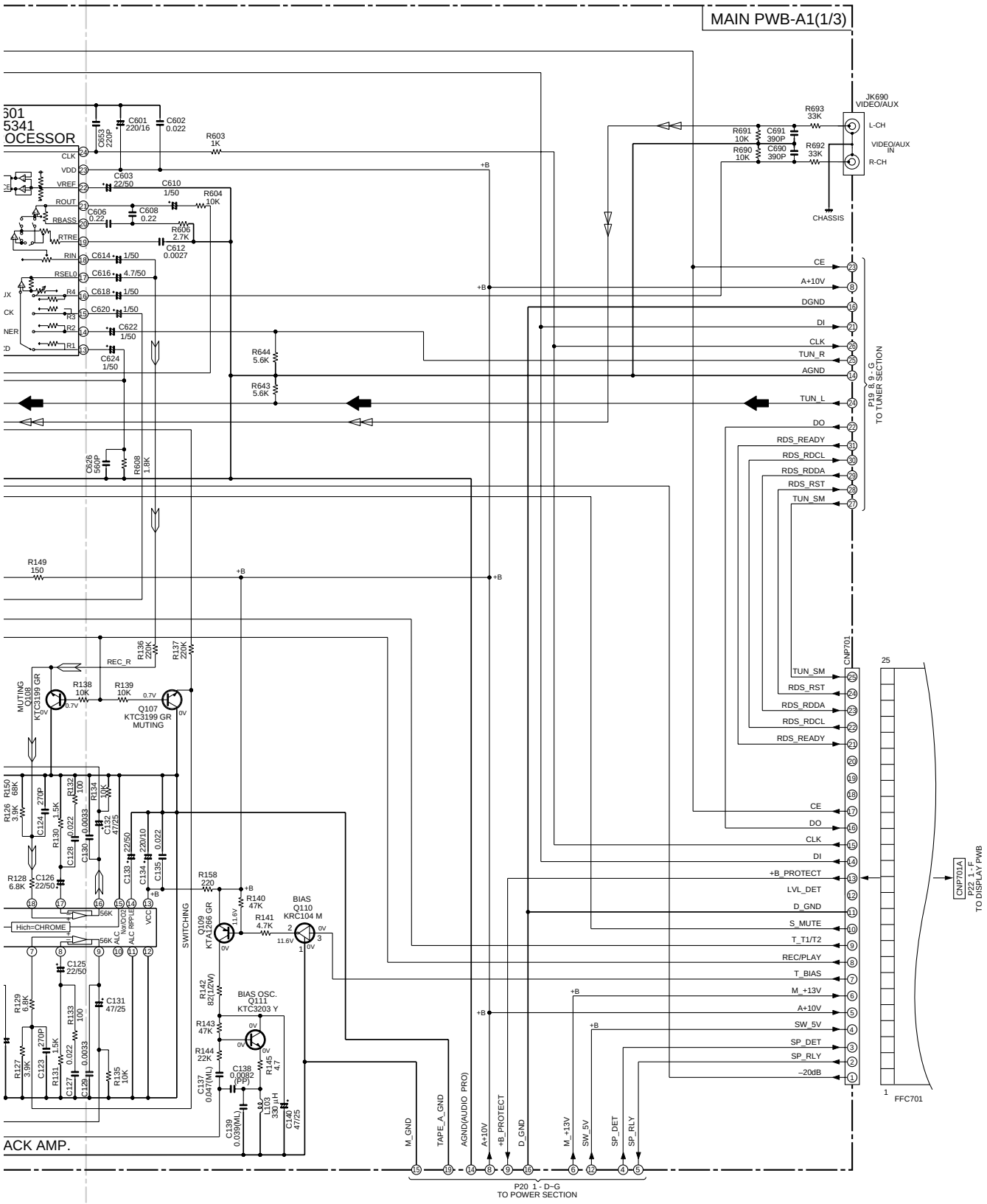


Figure 15 BLOCK DIAGRAM (3/3)



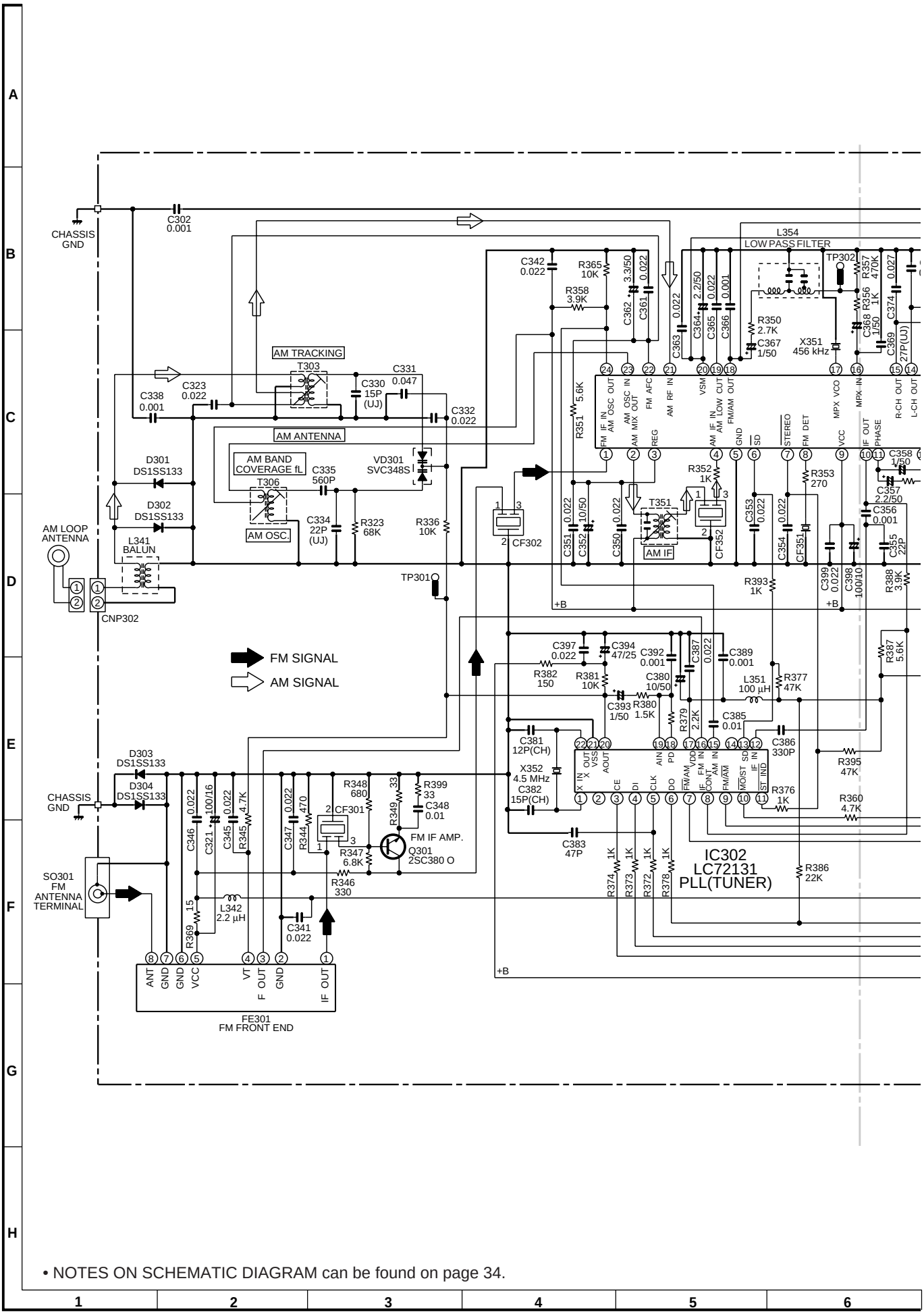
• NOTES ON SCHEMATIC DIAGRAM can be found on page 34.

Figure 16 SCHEMATIC DIAGRAM (1/10)



7	8	9	10	11	12

Figure 17 SCHEMATIC DIAGRAM (2/10)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 34.

Figure 18 SCHEMATIC DIAGRAM (3/10)

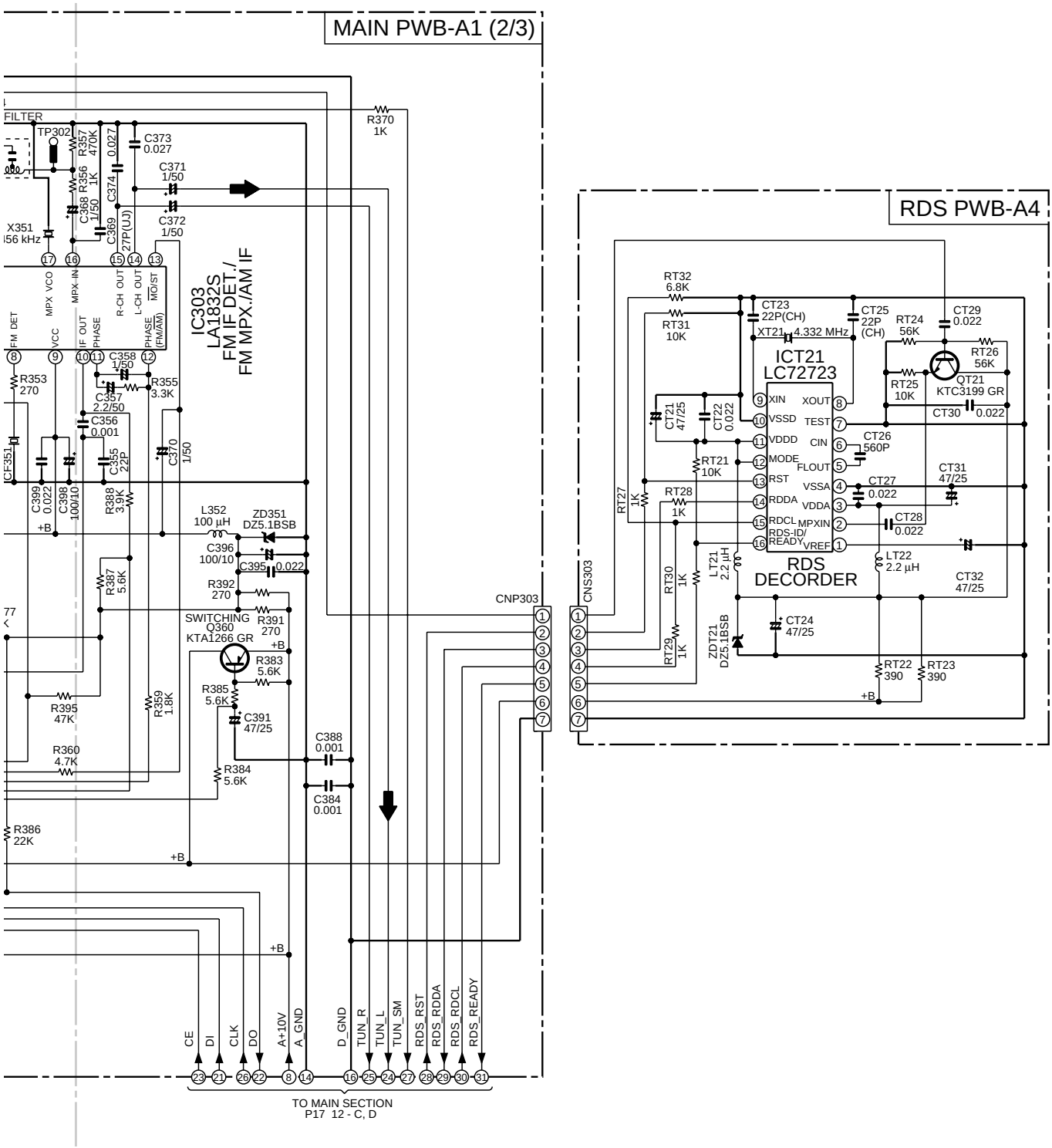
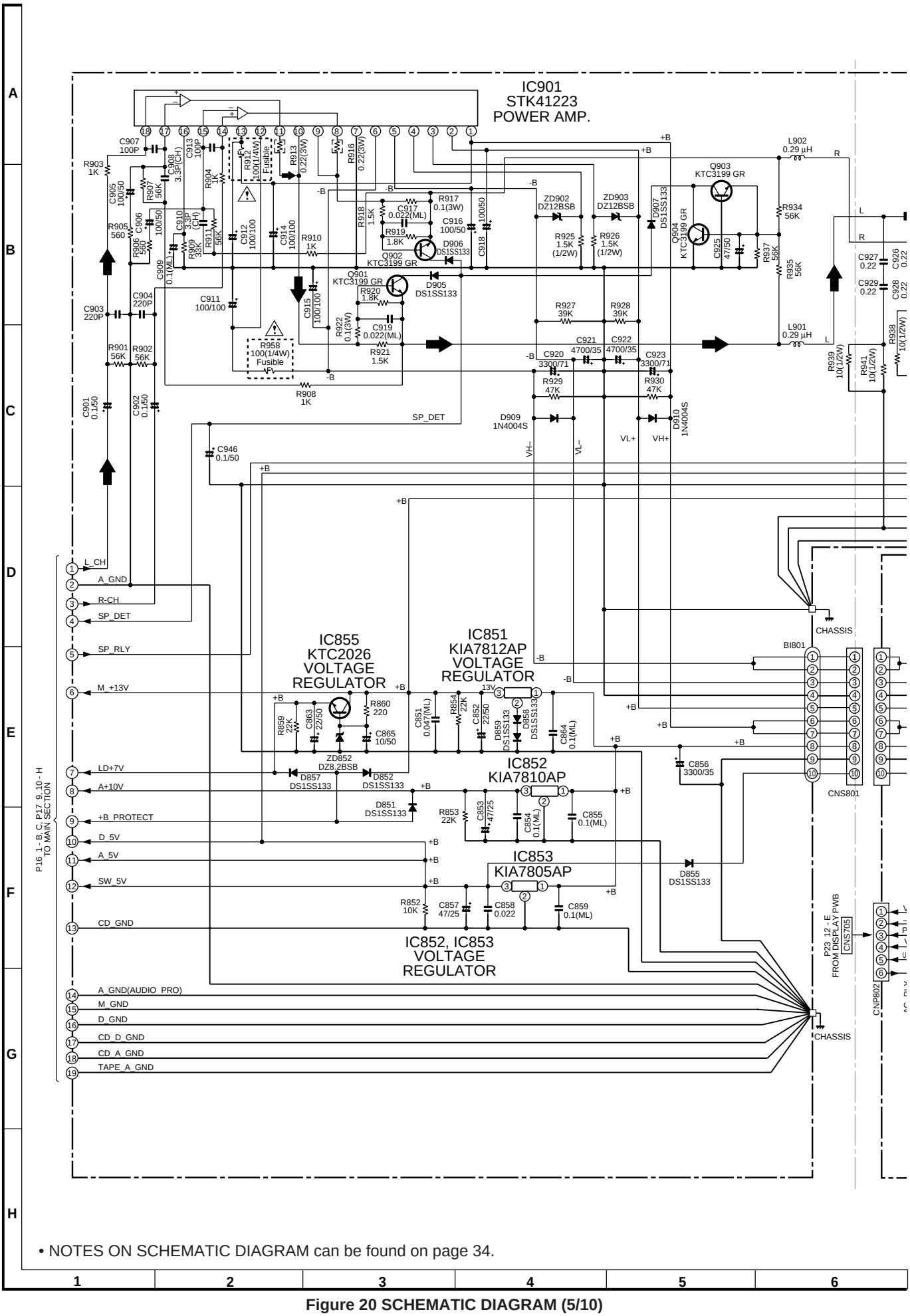
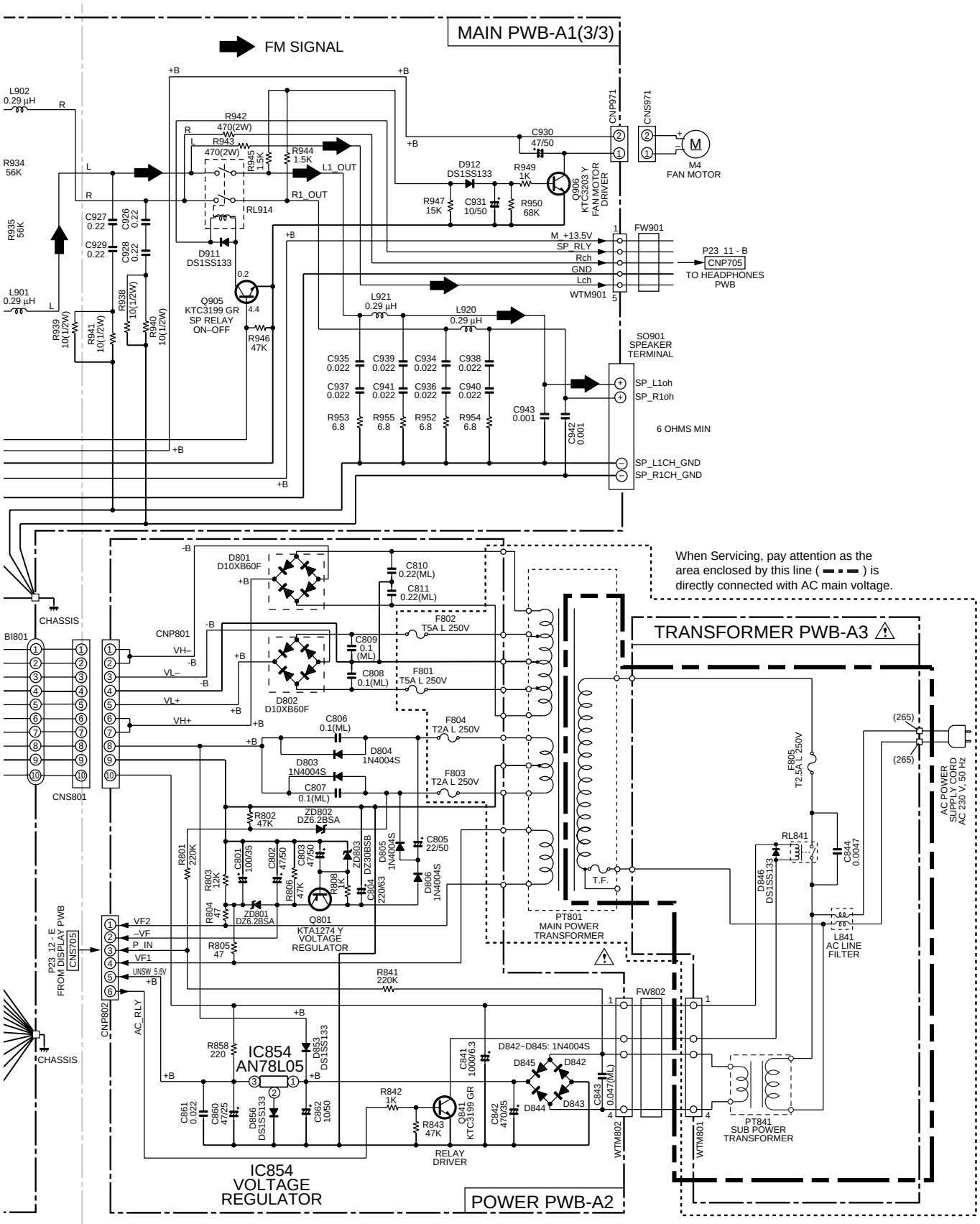


Figure 19 SCHEMATIC DIAGRAM (4/10)



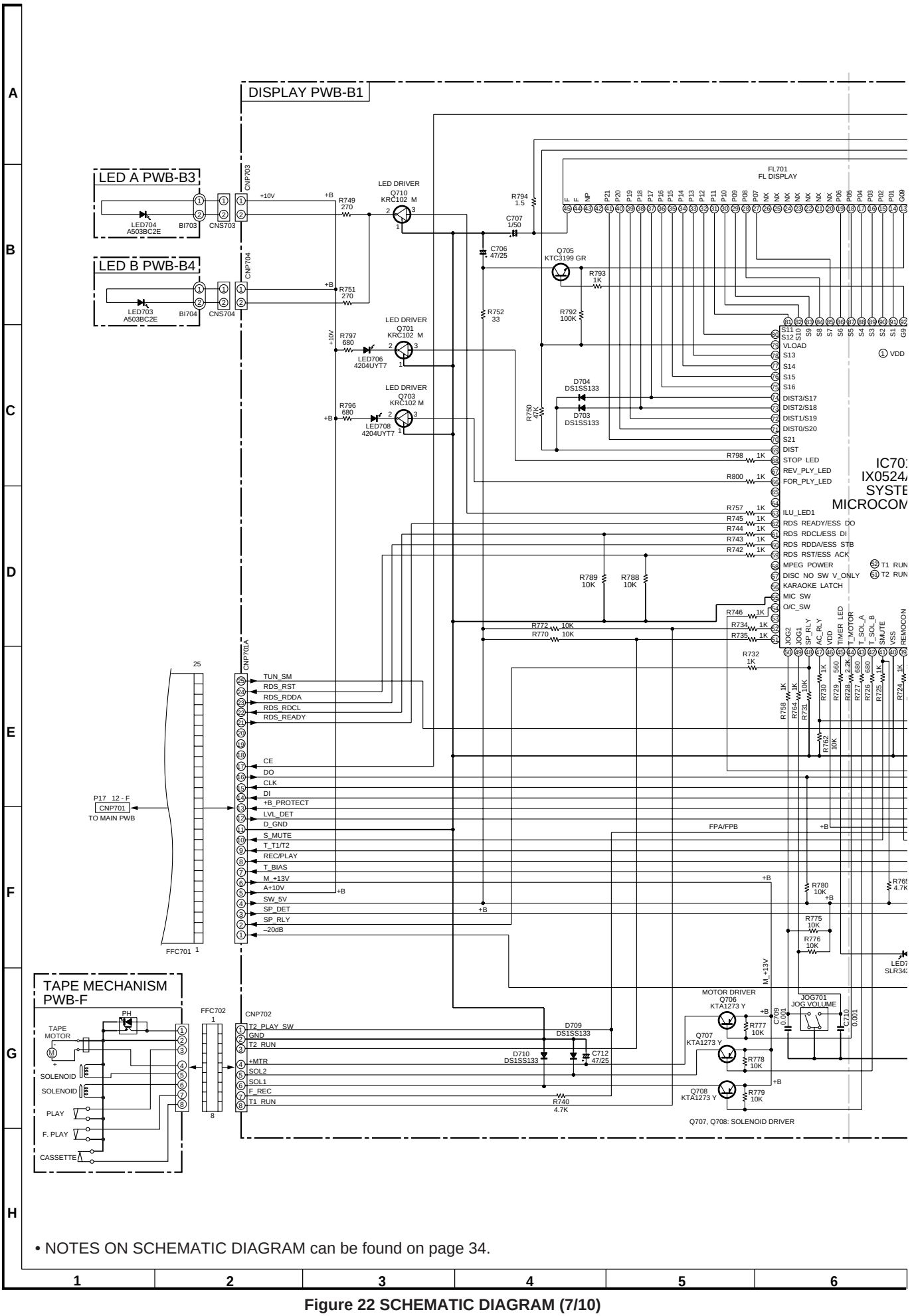
• NOTES ON SCHEMATIC DIAGRAM can be found on page 34.

Figure 20 SCHEMATIC DIAGRAM (5/10)



7	8	9	10	11	12

Figure 21 SCHEMATIC DIAGRAM (6/10)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 34.

Figure 22 SCHEMATIC DIAGRAM (7/10)

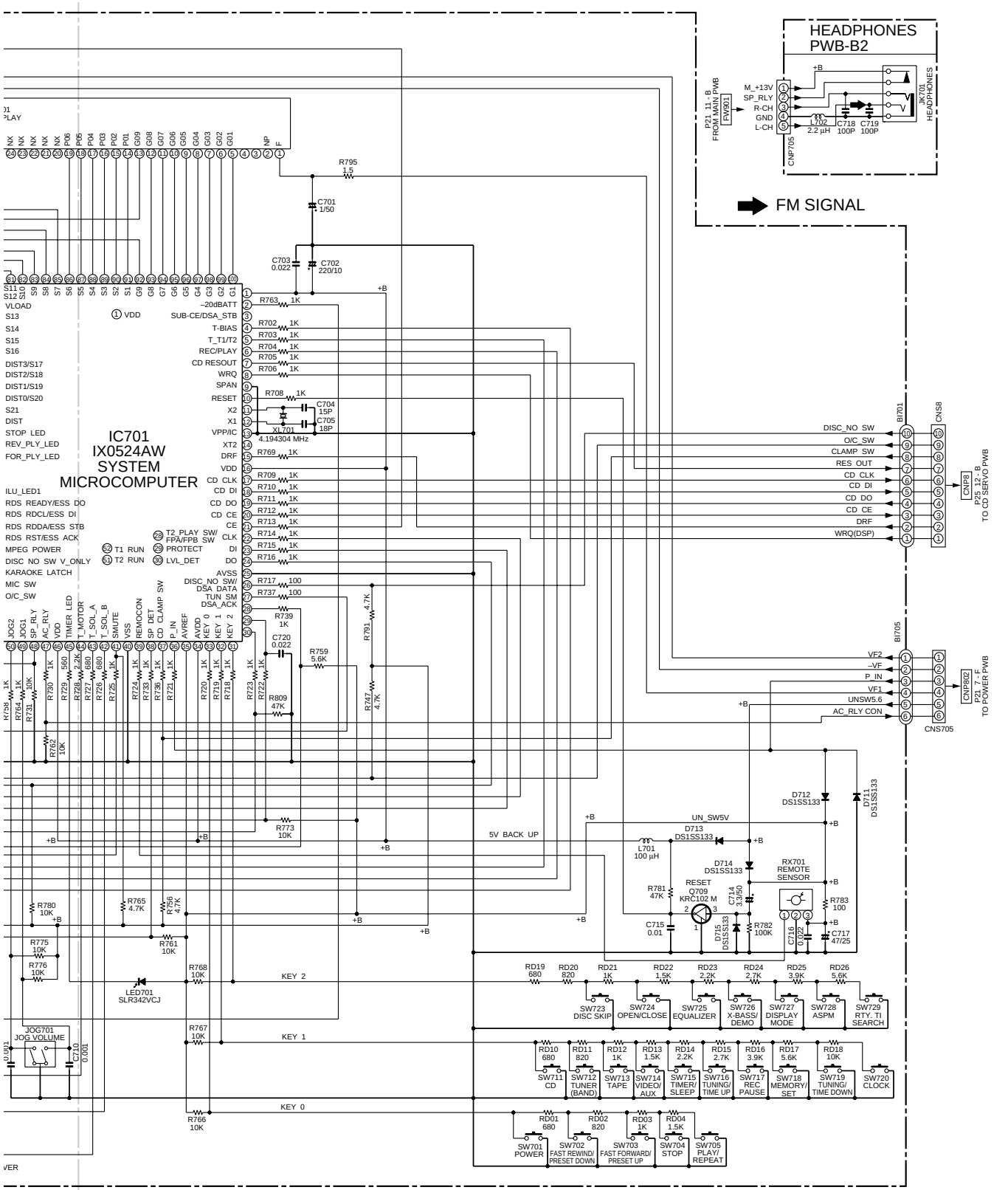
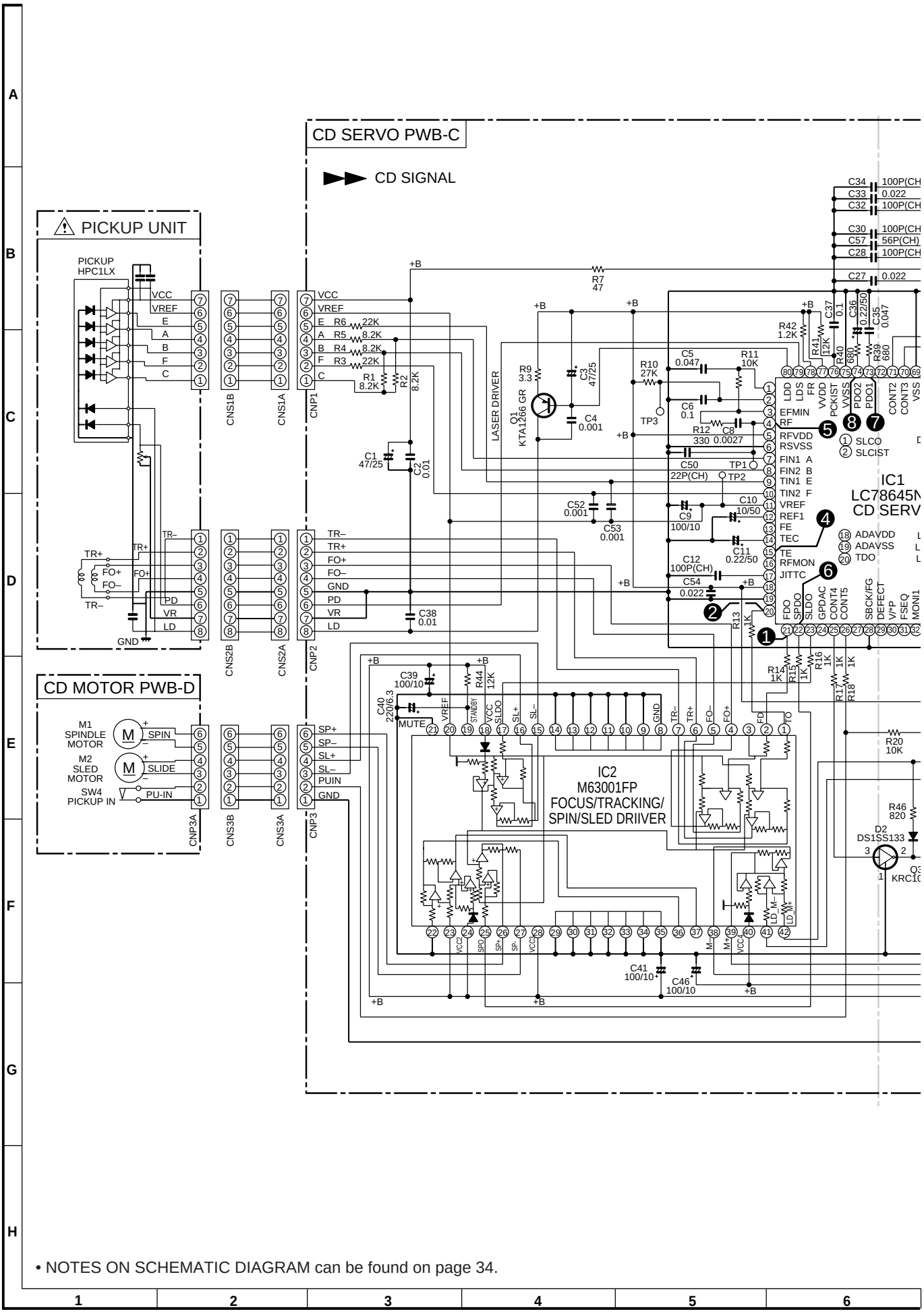
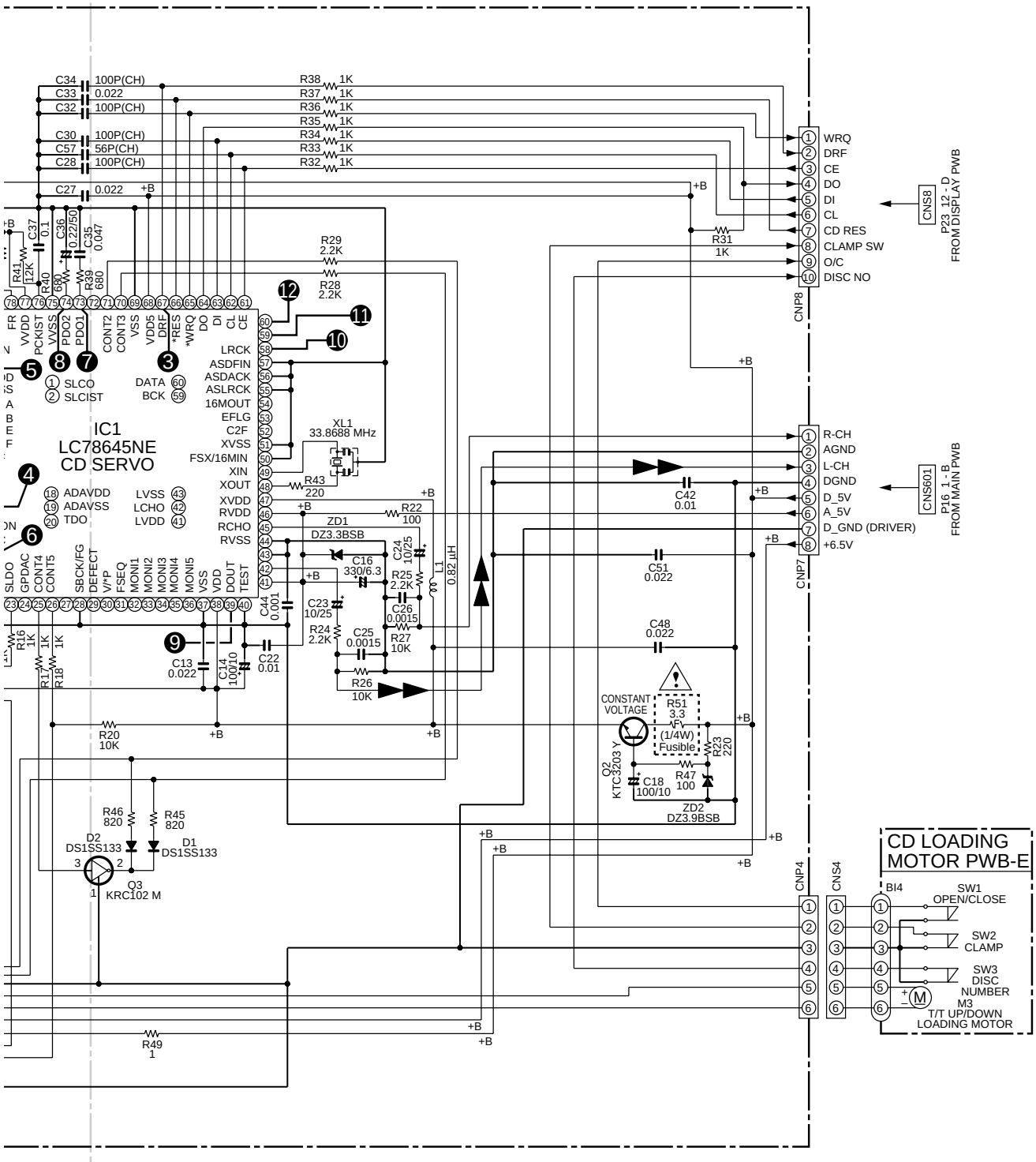


Figure 23 SCHEMATIC DIAGRAM (8/10)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 34.

Figure 24 SCHEMATIC DIAGRAM (9/10)



• The numbers ❶ to ⓬ are waveform numbers shown in page 35.

7	8	9	10	11	12

Figure 25 SCHEMATIC DIAGRAM (10/10)

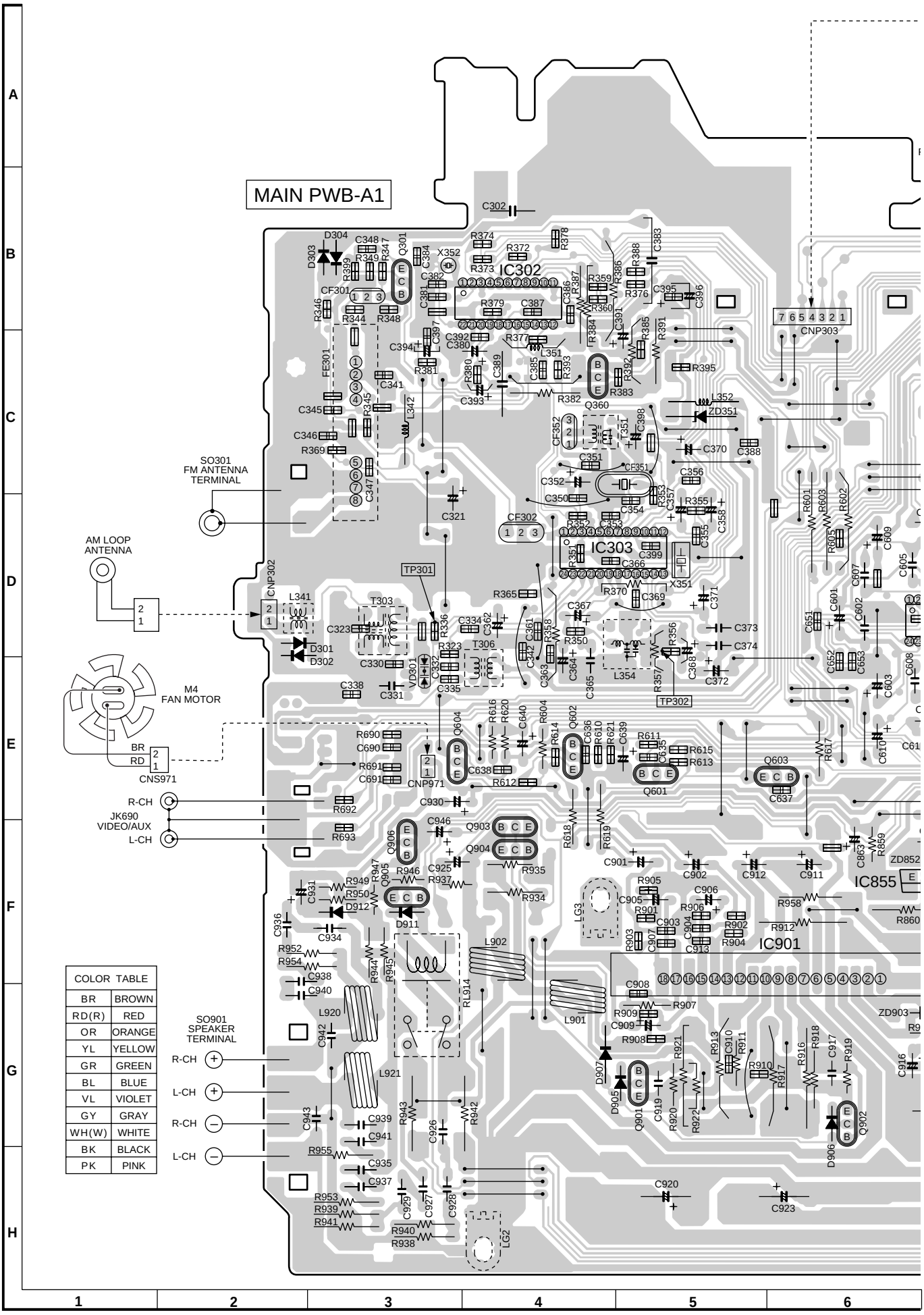
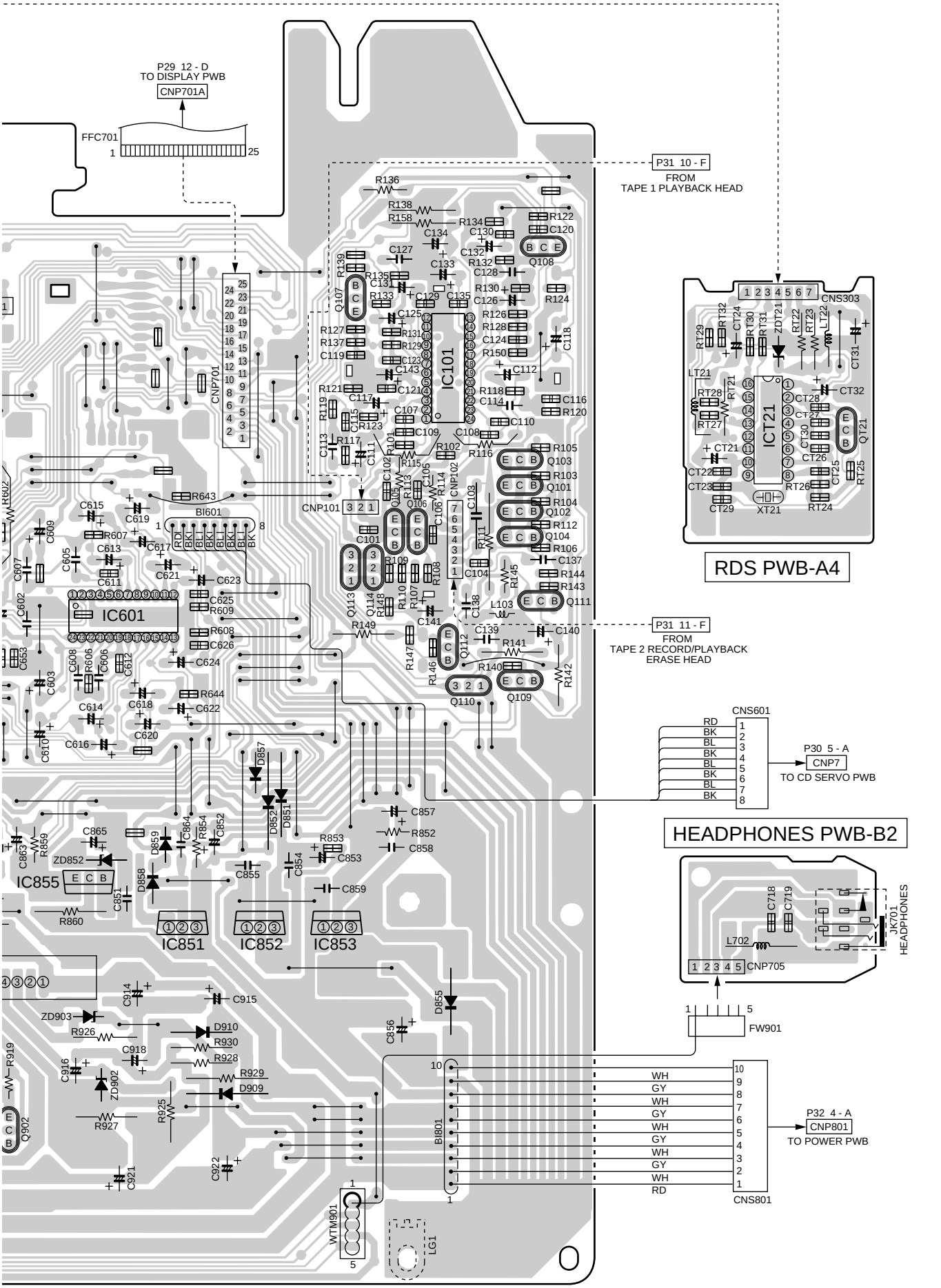


Figure 26 WIRING SIDE OF P.W.BOARD (1/7)



7	8	9	10	11	12

Figure 27 WIRING SIDE OF P.W.BOARD (2/7)

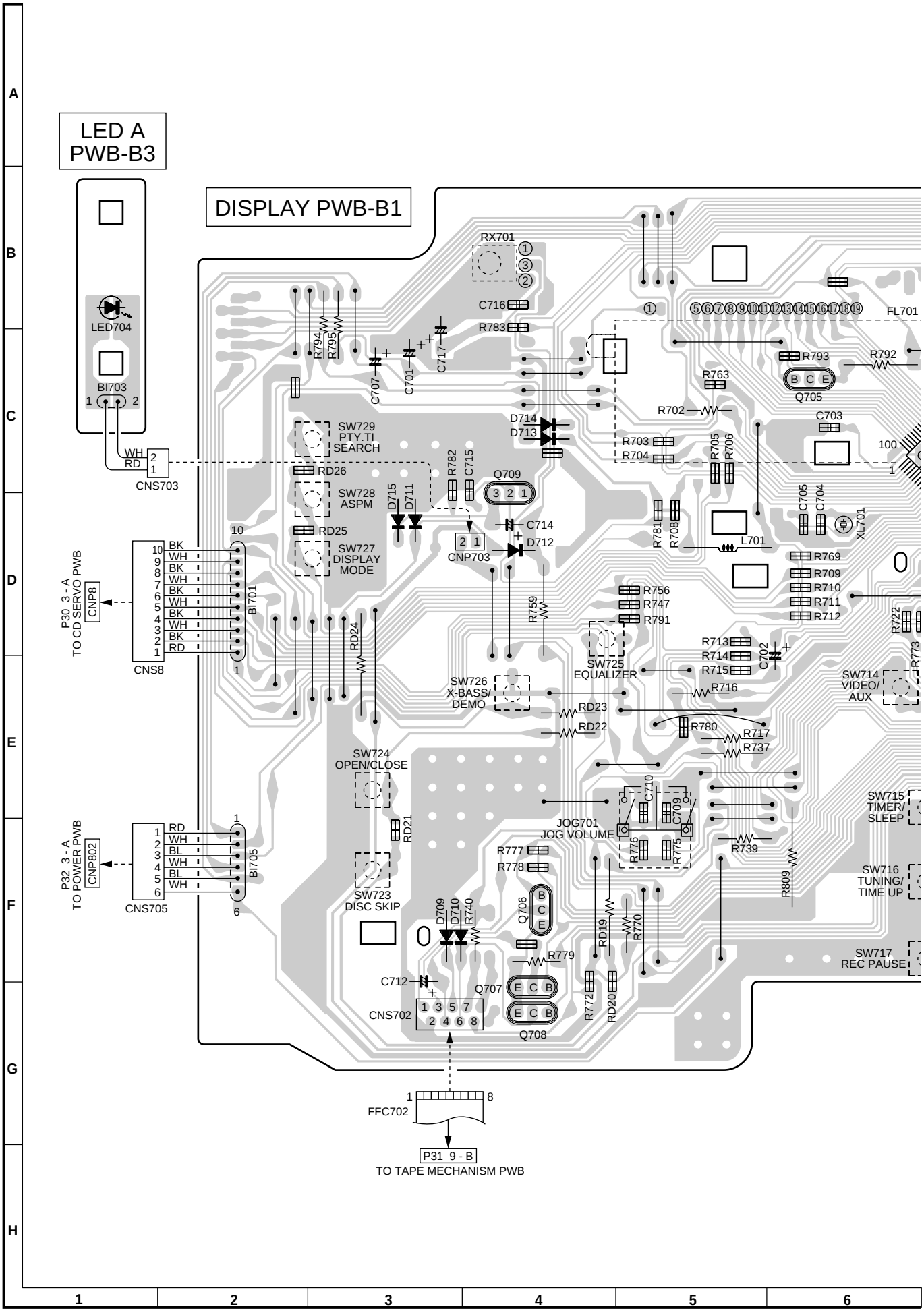
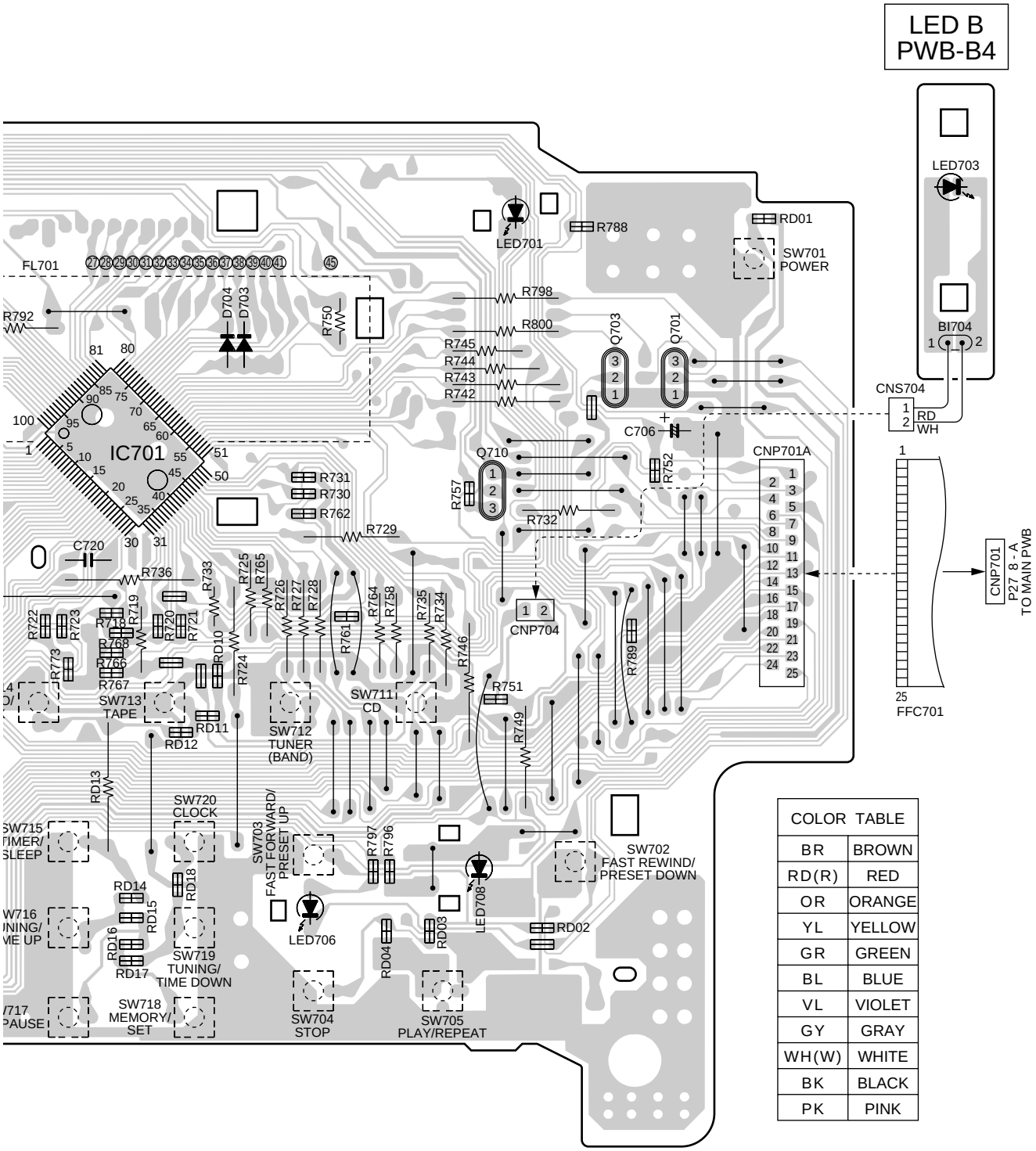


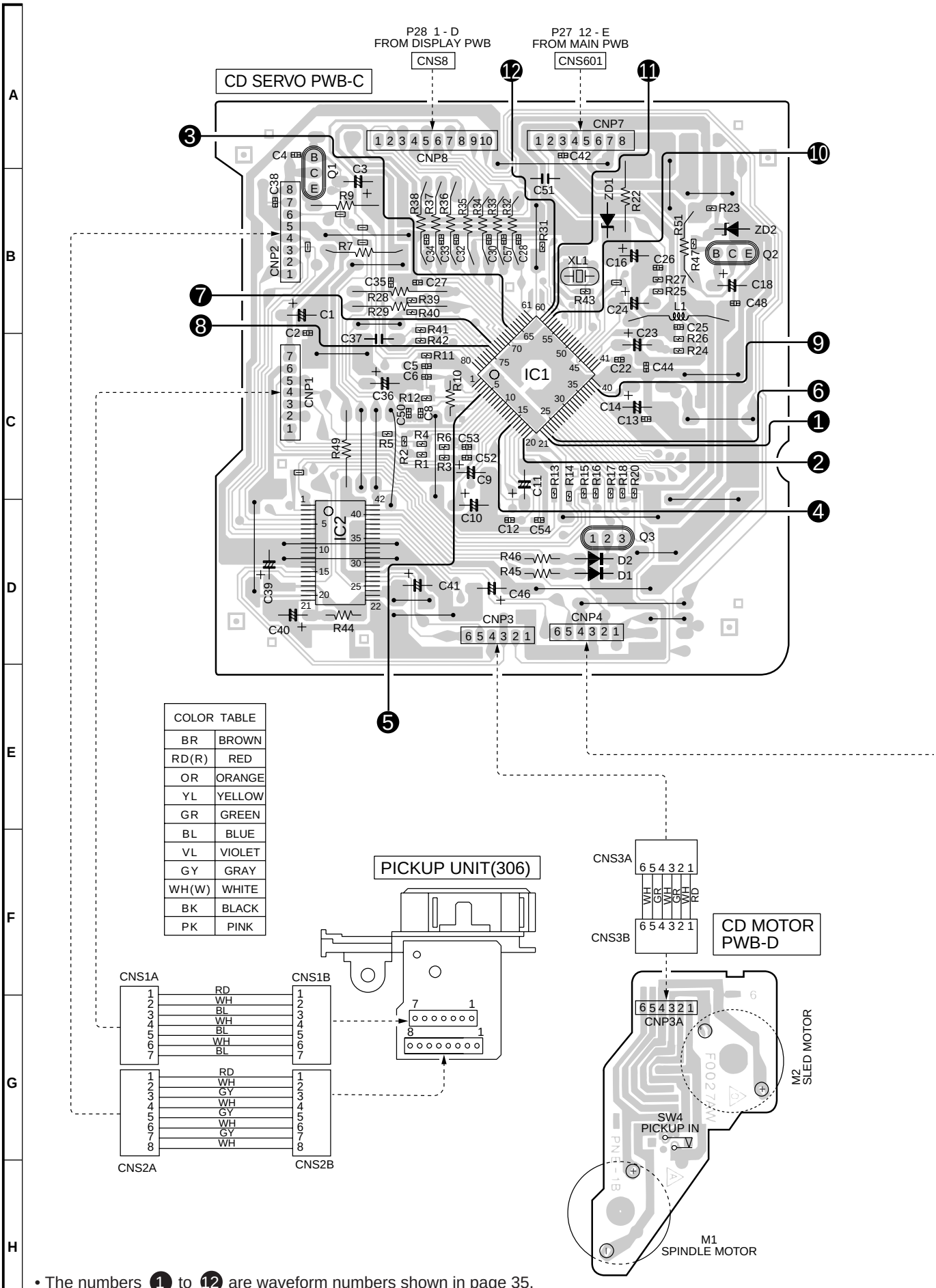
Figure 28 WIRING SIDE OF P.W.BOARD (3/7)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

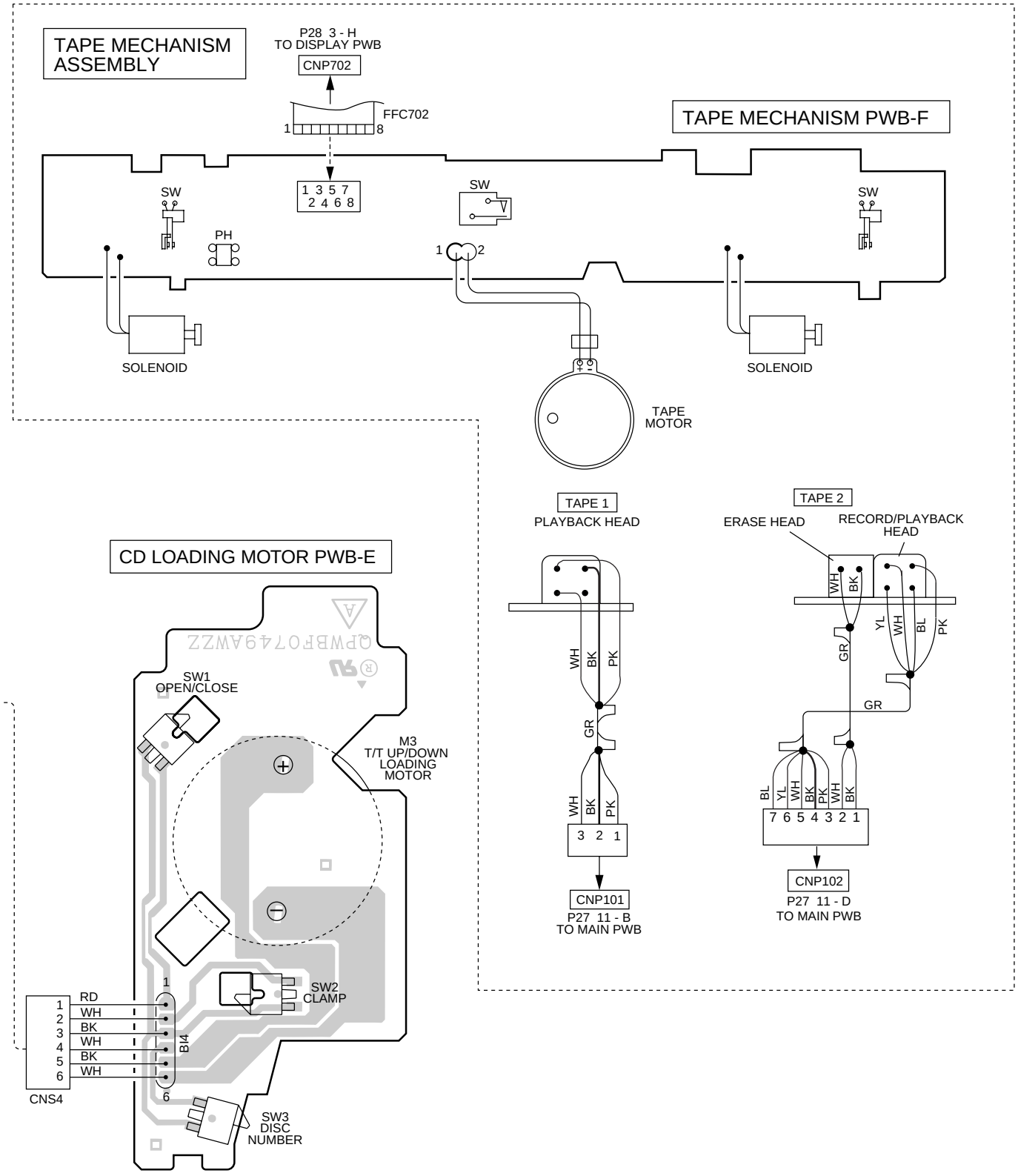
Figure 29 WIRING SIDE OF P.W.BOARD (4/7)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

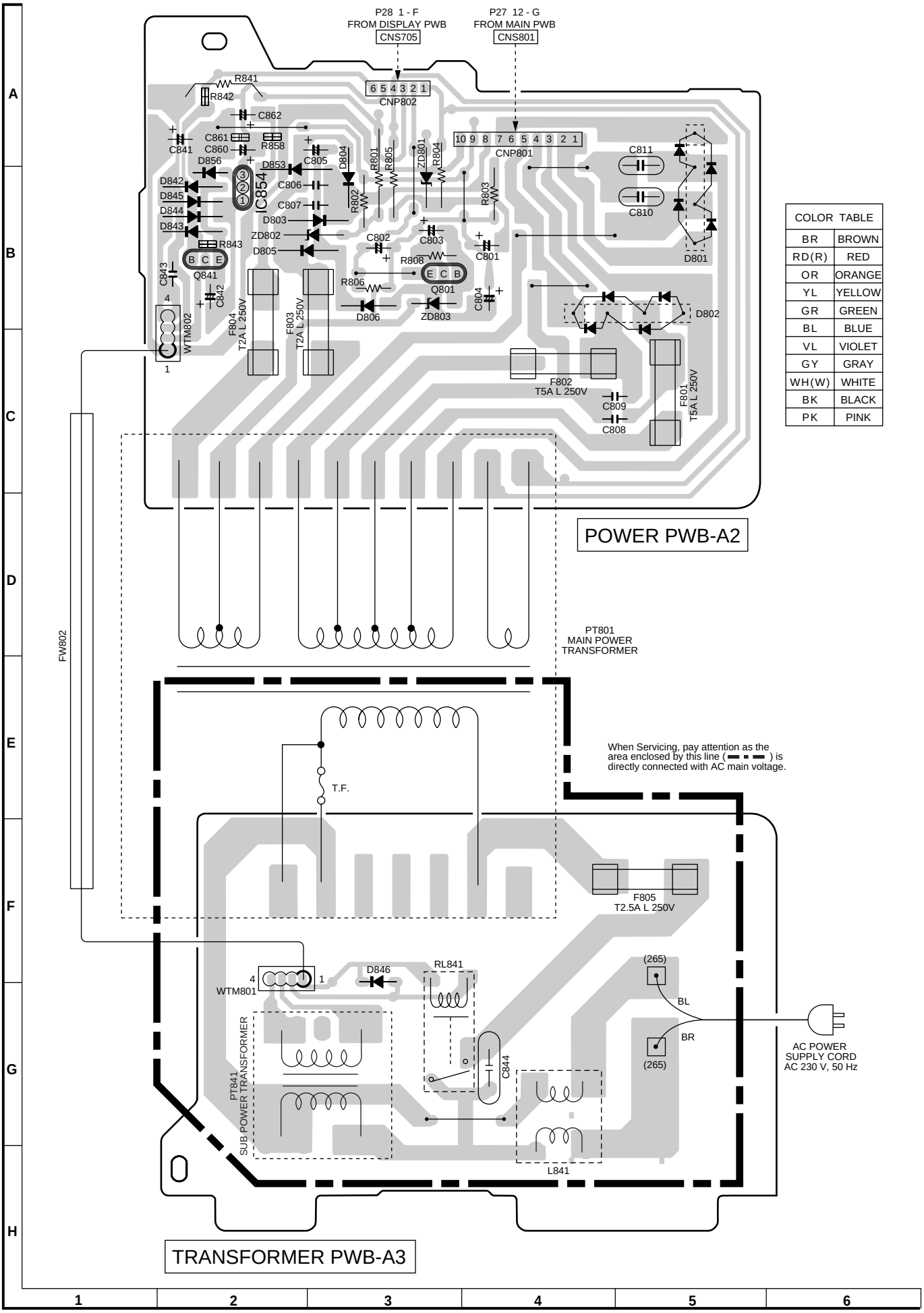
• The numbers ❶ to ⓬ are waveform numbers shown in page 35.

Figure 30 WIRING SIDE OF P.W.BOARD (5/7)



7	8	9	10	11	12

Figure 31 WIRING SIDE OF P.W.BOARD (6/7)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 32 WIRING SIDE OF P.W.BOARD (7/7)

VOLTAGE

IC101	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0.56 V
4	1.996 V
5	N.C.
6	1.303 V
7	0 V
8	0.587 V
9	3.54 V
10	3.46 V
11	0 V
12	0 V
13	7.03 V
14	4.2 V
15	0 V
16	3.46 V
17	0.587 V
18	0 V
19	2.68 V
20	N.C.
21	2.02 V
22	0.561 V
23	0 V
24	0 V

IC851	
PIN NO.	VOLTAGE
1	20.2 V
2	1.351 V
3	13.41 V

IC852	
PIN NO.	VOLTAGE
1	19.9 V
2	0 V
3	10.09 V

IC853	
PIN NO.	VOLTAGE
1	20.4 V
2	0 V
3	5 V

IC854	
PIN NO.	VOLTAGE
1	20.43 V
2	0.59 V
3	5.72 V

IC302	
PIN NO.	VOLTAGE
1	2.6 V
2	0 V
3	0 V
4	0 V
5	0 V
6	5.07 V
7	10.05 V
8	4.78 V
9	0 V
10	0 V
11	5.23 V
12	0 V
13	5.23 V
14	0 V
15	0 V
16	2.6 V
17	5.25 V
18	0 V
19	0 V
20	0.838 V
21	0 V
22	2.71 V

FE301	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	2.5 V
4	9.93 V
5	0 V
6	0 V
7	0 V
8	0.25 V

ICT21	
PIN NO.	VOLTAGE
1	2.58 V
2	2.58 V
3	5.16 V
4	0 V
5	2.58 V
6	2.58 V
7	0 V
8	2.62 V
9	2.48 V
10	0 V
11	5.16 V
12	5.16 V
13	0 V
14	0 V
15	4.76 V
16	0 V

IC601	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	5 V
5	5 V
6	5 V
7	5 V
8	5 V
9	5 V
10	5 V
11	5 V
12	5 V
13	5 V
14	5 V
15	5 V
16	5 V
17	5 V
18	5 V
19	5 V
20	5 V
21	5 V
22	5 V
23	10.07 V
24	0 V

IC303	
PIN NO.	VOLTAGE
1	2.13 V
2	5.15 V
3	2.13 V
4	2.13 V
5	0 V
6	5.23 V
7	5.23 V
8	3.6 V
9	5.15 V
10	4.43 V
11	1.836 V
12	1.265 V
13	2.32 V
14	1.25 V
15	1.269 V
16	2.12 V
17	0 V
18	5.01 V
19	5.02 V
20	5.02 V
21	5.04 V
22	5.04 V
23	10.08 V
24	0 V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.85 V	51	4.93 V
2	4.78 V	52	4.93 V
3	0 V	53	N.C.
4	0 V	54	0 V
5	4.71 V	55	0 V
6	4.75 V	56	0 V
7	4.78 V	57	0 V
8	4.92 V	58	0 V
9	0 V	59	0 V
10	4.89 V	60	0 V
11	2.32 V	61	0 V
12	2.014 V	62	0 V
13	0 V	63	4.82 V
14	4.78 V	64	4.84 V (N.C.)
15	0 V	65	4.84 V (N.C.)
16	4.79 V	66	4.82 V
17	4.72 V	67	0 V
18	0.14 V	68	4.82 V
19	4.86 V	69	-27.4 V
20	0.1 V	70	-30.4 V
21	0 V	71	-30.4 V
22	0 V	72	-18.2 V
23	0 V	73	-30.4 V
24	5.02 V	74	-27.4 V
25	0 V	75	-21.1 V
26	4.93 V	76	-24.2 V
27	0 V	77	-27.3 V
28	5.08 V	78	-15.13 V
29	5.07 V	79	-30.5 V
30	0 V	80	-27.3 V
31	5.08 V	81	-18.23 V
32	3.31 V	82	-27.3 V
33	5.08 V	83	-24.2 V
34	4.79 V	84	-30.4 V
35	5.08 V	85	-21.2 V
36	1.41 V	86	-14.95 V
37	0 V	87	-30.4 V
38	5.09 V	88	-30.3 V
39	4.95 V	89	-30.3 V
40	0 V	90	-30.3 V
41	0 V	91	-27.2 V
42	13.23 V	92	-27.2 V
43	13.23 V	93	-27.1 V
44	13.23 V	94	-27.3 V
45	3.82 V	95	-27.3 V
46	4.79 V	96	-27.3 V
47	4.78 V	97	-26.6 V
48	4.54 V	98	-27.3 V
49	0 V	99	-27.3 V
50	4.93 V	100	-27.3 V

IC1			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	1.6 V	41	3.7 V
2	1.0 V	42	3.7 V
3	1.6 V	43	0 V
4	1.8 V	44	0 V
5	3.3 V	45	3.7 V
6	0 V	46	3.2 V
7	1.6 V	47	3.2 V
8	1.6 V	48	3.2 V
9	1.6 V	49	0 V
10	1.6 V	50	0 V
11	1.6 V	51	0 V
12	1.6 V	52	3.2 V
13	1.5 V	53	0 V
14	1.5 V	54	0 V
15	1.5 V	55	0 V
16	1.5 V	56	0 V
17	0.8 V	57	0 V
18	3.2 V	58	3.2 V
19	0 V	59	0 V
20	1.6 V	60	0 V
21	1.6 V	61	0 V
22	1.6 V	62	4.7 V
23	1.6 V	63	0 V
24	0 V	64	4.9 V
25	0 V	65	4.9 V
26	3.2 V	66	4.9 V
27	0 V	67	0 V
28	0 V	68	4.9 V
29	0 V	69	0 V
30	0 V	70	0 V
31	0 V	71	0 V
32	0 V	72	0 V
33	0 V	73	0 V
34	0 V	74	0 V
35	0 V	75	0 V
36	0 V	76	3.2 V
37	0 V	77	3.2 V
38	3.2 V	78	3.2 V
39	3.2 V	79	0 V
40	0 V	80	3.2 V

IC855	
PIN NO.	VOLTAGE
E	7.69 V
C	13.37 V
B	8.24 V

IC2	
PIN NO.	VOLTAGE
1	1.7 V
2	1.7 V
3	1.8 V
4	2.1 V
5	2.1 V
6	2.1 V
7	2.0 V
8	0 V
9	0 V
10	0 V
11	0 V
12	0 V
13	0 V
14	0 V
15	2.1 V
16	2.1 V
17	1.6 V
18	4.9 V
19	3.0 V
20	1.6 V
21	0 V
22	0 V
23	4.9 V
24	4.9 V
25	1.8 V
26	2.1 V
27	2.1 V
28	0 V
29	0 V
30	0 V
31	0 V
32	0 V
33	0 V
34	0 V
35	0 V
36	4.2 V
37	0 V
38	2.1 V
39	2.1 V
40	4.9 V
41	3.7 V
42	3.7 V

IC901	
PIN NO.	VOLTAGE
1	58.2 V
2	25.9 V
3	14.05 V
4	13.93 V
5	25.6 V
6	58.1 V
7	0 V
8	0 V
9	0 V
10	0 V
11	0 V
12	56.7 V
13	57 V
14	0 V
15	0 V
16	55.5 V
17	0 V
18	0 V

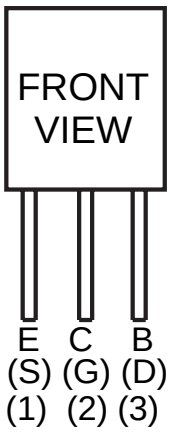
NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     indicates AM
     indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ ” (⊏ ⚌ ⚌ ⚌ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

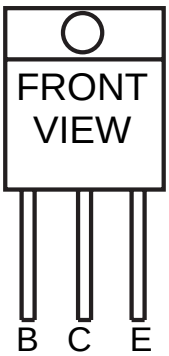
REF. NO	DESCRIPTION	POSITION
JOG701	JOG VOLUME	ON—OFF
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	POWER	ON—OFF
SW702	FAST REWIND/PRESET DOWN	ON—OFF
SW703	FAST FORWARD/PRESET UP	ON—OFF
SW704	STOP	ON—OFF
SW705	PLAY/REPEAT	ON—OFF
SW711	CD	ON—OFF
SW712	TUNER (BAND)	ON—OFF
SW713	TAPE	ON—OFF
SW714	VIDEO/AUX	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW715	TIMER/SLEEP	ON—OFF
SW716	TUNING/TIME UP	ON—OFF
SW717	REC PAUSE	ON—OFF
SW718	MEMORY/SET	ON—OFF
SW719	TUNING/TIME DOWN	ON—OFF
SW720	CLOCK	ON—OFF
SW723	DISC SKIP	ON—OFF
SW724	OPEN/CLOSE	ON—OFF
SW725	EQUALIZER	ON—OFF
SW726	X-BASS/DEMO	ON—OFF
SW727	DISPLAY MODE	ON—OFF
SW728	ASPM	ON—OFF
SW729	PTY. TI SEARCH	ON—OFF

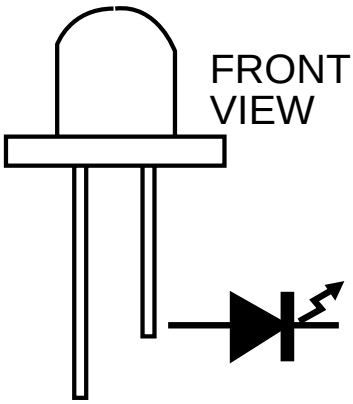
TYPES OF TRANSISTOR AND LED



KRC102 M
KRC104 M
KTA1266 GR
KTA1273 Y
KTA1274 Y
KTC3199 GR
KTC3203 Y
2SC1845 F
2SC380 O



KTC2026

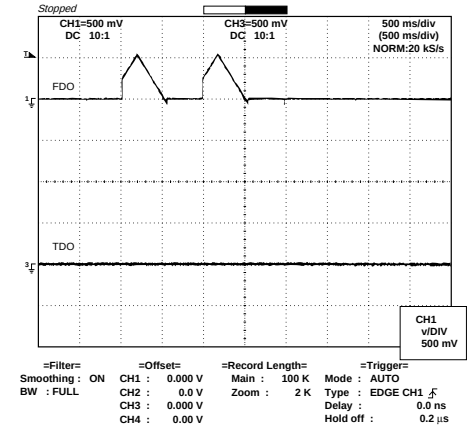


4204UYT7
A503BC2E
SLR342VCJ

WAVEFORMS OF CD CIRCUIT

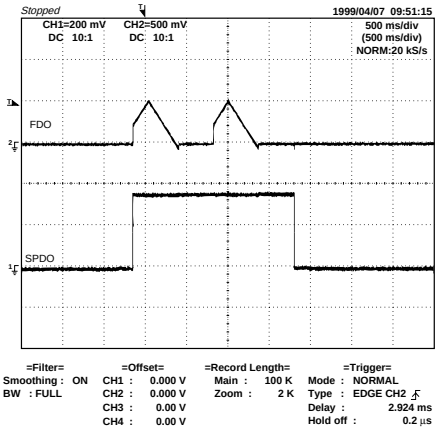
1 IC1 (21)

2 IC1 (20)


Stopped
CH1=500 mV DC 10:1
CH3=500 mV DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
FDO
TDO
CH1 v/DIV 500 mV
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.000 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH1 Delay : 0.0 ns Hold off : 0.2 µs

1 IC1 (21)

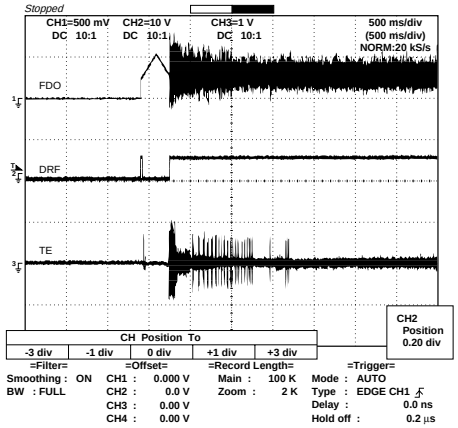
6 IC1 (22)


Stopped
1999/04/07 09:51:15
CH1=200 mV DC 10:1
CH2=500 mV DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
FDO
SPDO
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.000 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH2 Delay : 2.924 ms Hold off : 0.2 µs

1 IC1 (21)

3 IC1 (67)

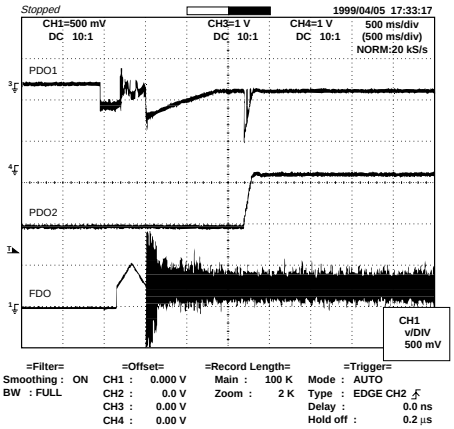
4 IC1 (15)


Stopped
CH1=500 mV DC 10:1
CH2=10 V DC 10:1
CH3=1 V DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
FDO
DRF
TE
CH Position To
-3 div -1 div 0 div +1 div +3 div
CH2 Position 0.20 div
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH1 Delay : 0.0 ns Hold off : 0.2 µs

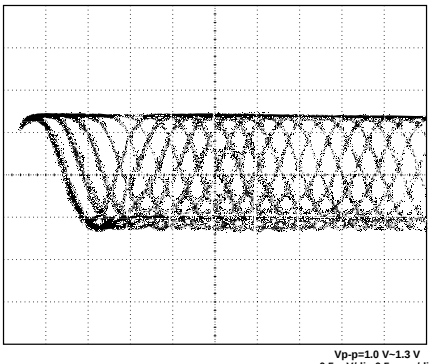
7 IC1 (73)

8 IC1 (74)

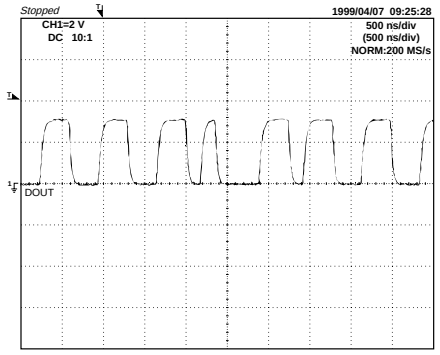
1 IC1 (21)


Stopped
1999/04/05 17:33:17
CH1=500 mV DC 10:1
CH3=1 V DC 10:1
CH4=1 V DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
PDO1
PDO2
FDO
CH1 v/DIV 500 mV
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH2 Delay : 0.0 ns Hold off : 0.2 µs

5 IC1 (4)

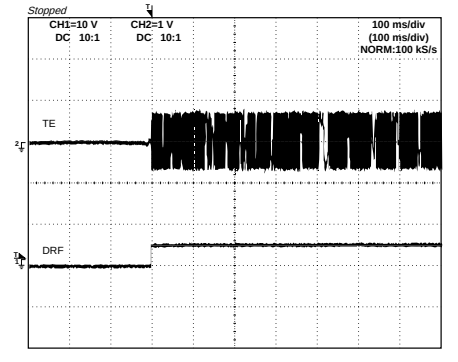


9 IC1 (39)


Stopped
1999/04/07 09:25:28
CH1=2 V DC 10:1
500 ns/div (500 ns/div) NORM:200 MS/s
DOUT
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.00 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 1 K Zoom : 100
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.887 ms Hold off : 0.2 µs

4 IC1 (15)

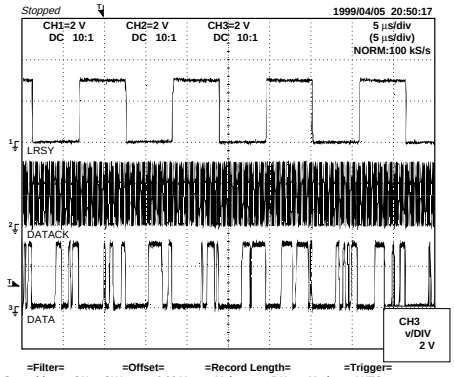
3 IC1 (67)


Stopped
CH1=10 V DC 10:1
CH2=1 V DC 10:1
100 ms/div (100 ms/div) NORM:100 kS/s
TE
DRF
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.0 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL (100 ms/div) Type : EDGE CH1 Delay : 2.924 ms Hold off : 0.2 µs

10 IC1 (58)

11 IC1 (59)

12 IC1 (60)


Stopped
1999/04/05 20:50:17
CH1=2 V DC 10:1
CH2=2 V DC 10:1
CH3=2 V DC 10:1
5 µs/div (5 µs/div) NORM:100 kS/s
LRSY
DATACK
DATA
CH3 v/DIV 2 V
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.00 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 5 K Zoom : 100
=Trigger= Mode : AUTO Type : EDGE CH3 Delay : 0.0 ns Hold off : 0.2 µs

TROUBLESHOOTING

When the CD does not function

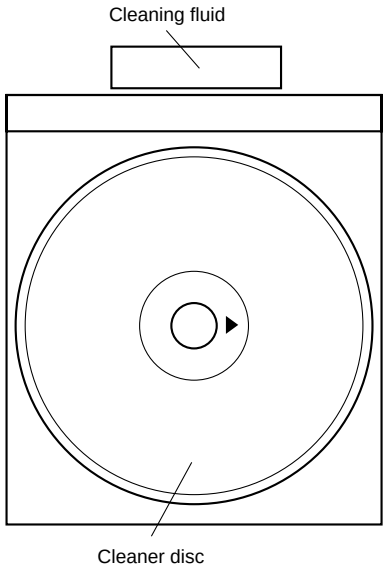
When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.
Remove the cabinet and follow the trouble shooting instructions.
"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down,then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to turn, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.

When a CD cannot be played

1. "E-CD01" is displayed.

(1) Check the power to IC1 (LC78645NE), the presence of the clock signal (33.8688 MHz) and the status of the RESET terminal (pin 66 on IC1).
(2) Does the pickup move to the PICKUP-IN Switch (SW4) position ?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2. Pressing the CD operation key is accepted, but playback does not occur.

(1) Focus-HF system check
(2) Tracking system check
(3) Spin system check
(4) PLL system check
(5) Others

(1) Focus-HF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the OPEN/CLOSE switch (SW1) without inserting a disc, and try starting the playback operation.

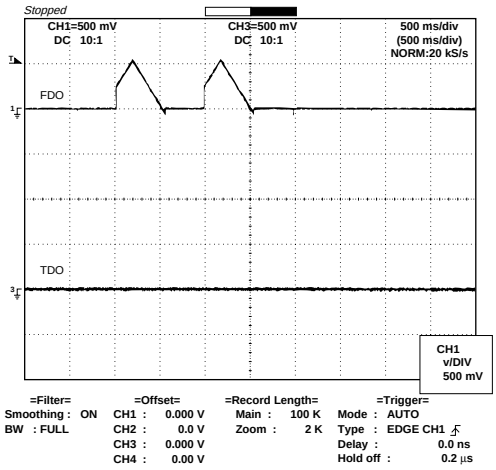


Figure 37-1

1. Does the pickup move to the PICKUP-IN Switch (SW4) position ?
   - No → Sled motor (M2).
   - Yes ↓
2. Does the focus (lens) move up and down ? (Waveform drawing Figure 37-1)
   - No → Check the focus peripheral circuit.
   - Yes ↓
3. Is the laser lit ?
   - No → Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓
4. Is the turntable rotating ?
   - No → Spindle motor (M1).

When a disc is loaded, start playback operation.

1. Is focus servo activated ? (Waveform drawing Figure 37-2)
   - No → Pins 7~11, 79 and 80 on IC1 Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓
2. Does DRF change from "L" to "H" ?
   - No → Is the disc rotating ?
     - No → Check the spin system.
     - Yes → If the disc is spinning and a HF waveform is generated, DRF will go H.
   - Yes ↓
3. Is the HF waveform normal ? (Waveform drawing Figure 37-3)
   - No → If the level is not normal.

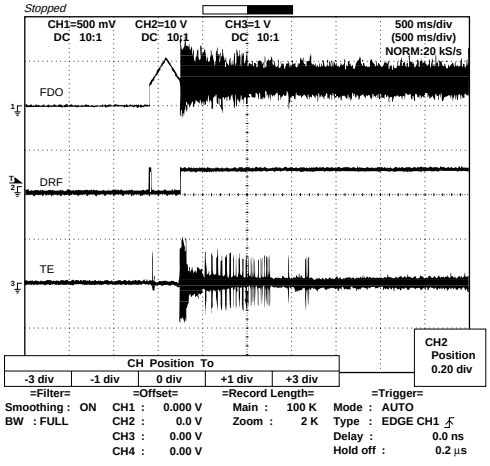


Figure 37-2

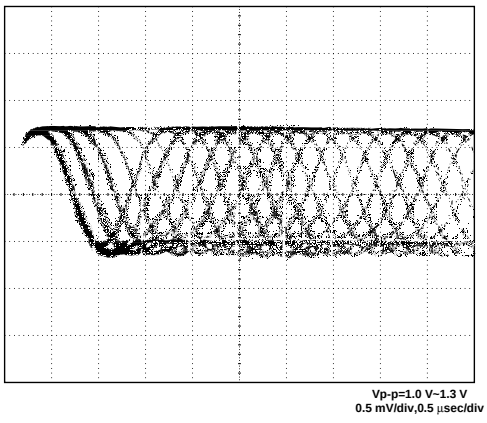


Figure 37-3

(2) Tracking system check.

Check the TE waveform at pin 15 on IC1.

If the waveform shown in Figure 38-1 appears and soon after NO DISC appears ?

Yes → The tracking servo is not activated.
Check the peripheral circuits at pins 14, 15 and 20 on IC1, and CNS1A/B.

No ↓

"Initialization" is possible, but play is not possible ?

Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found.
Check the around pin 20 on IC1.

No ↓

"Initialization" is not possible. → Data cannot be read. Check the VCO-PLL system.

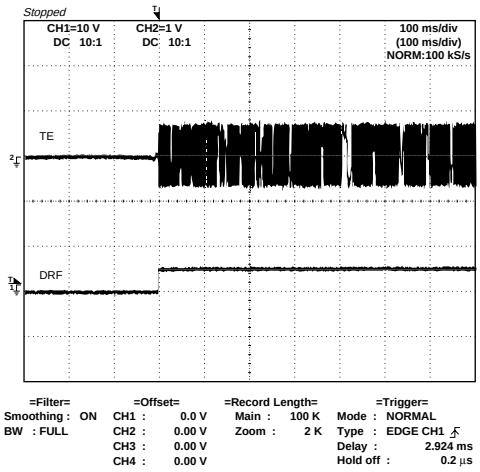


Figure 38-1

(3) Spin system check.

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

↓

1. The turntable rotates a little ? (Waveform drawing Figure 38-2)

Yes → The spin driver circuit is OK.

No ↓

2. The turntable doesn't rotate. → Check around pin 22 on IC1, pins 15 and 16 on IC3, and CNS3A/B.

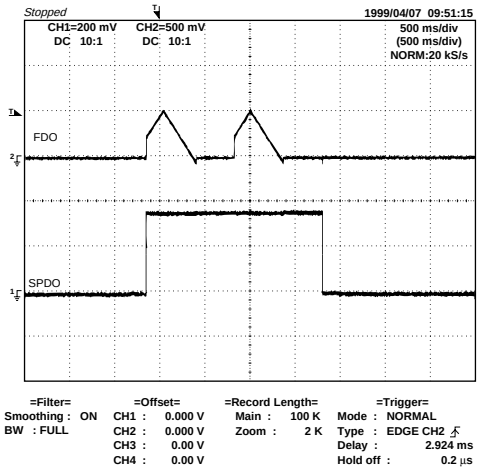


Figure 38-2

(4) PLL system check.

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDO waveform. (Figure 39-1)

↓

Check around pins 73~78 on IC1.

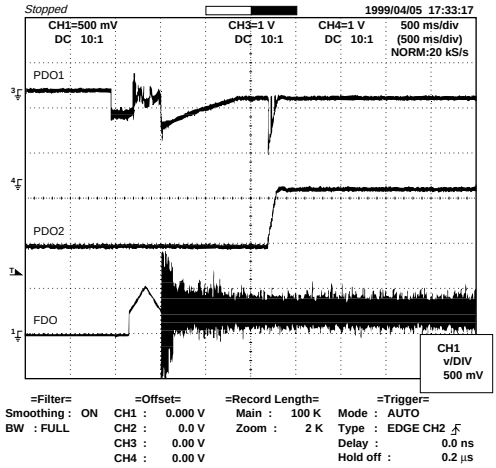


Figure 39-1

(5) Others.

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 52 (C2F) on IC1 "L" ?

No → There are too many error flags on a damaged disc which makes error correction impossible.

↓

Check again using a known good disc.

Yes

↓

1. When playing at normal speed.
   Check the peripheral circuit at pin 39 (DOUT) on IC1 and the waveform (Figure 39-2).

↓

If OK, Check the unit.

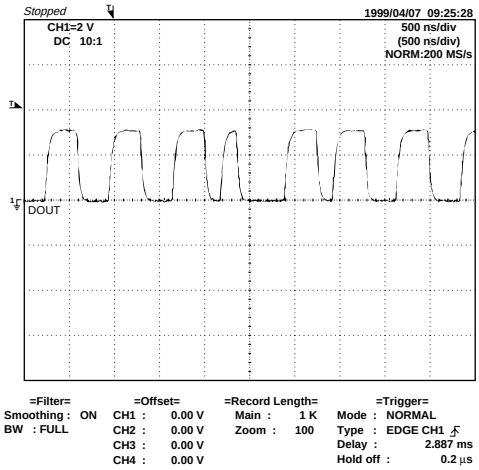


Figure 39-2

FUNCTION TABLE OF IC

IC1 VHiLC78645NE1: CD Servo (LC78645NE) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	SLCO	Output	—	For slice level control.	Control output.
2	SLCIST	Input	—		Resistor connection terminal for SLCO output current setting.
3	EFMIN	Input	—		RF signal input terminal.
4	RF	Output	—	RF signal monitor terminal.	
5	RFVDD	Input	—	RF power terminal.	
6	RFVSS	—	—	RF earth terminal. To be connected to 0 V.	
7	FIN1	Input	—	A+C signal input terminal.	
8	FIN2	Input	—	B+D signal input terminal.	
9	TIN1	Input	—	E signal input terminal.	
10	TIN2	Input	—	F signal input terminal.	
11	VREF	Output	RFVDD/2	VREF voltage output terminal.	
12	REF1	Input	—	Reference supply setting terminal.	
13*	FE	Output	ZHI	FE signal monitor terminal.	
14	TEC	Output	–	LPF capacitor connection terminal for TE signal.	
15*	TE	Output	ZHI	TE signal monitor terminal.	
16*	RFMON	Output	ZHI	RF internal signal monitor terminal.	
17	JITTC	—	—	Capacitor connection terminal for jitter detection.	
18	ADAVDD	Input	—	Power terminal for servo A/D, D/A.	
19	ADAVSS	—	—	Earth terminal for serve A/D, D/A. To be connected to 0 V.	
20	TDO	Output	ADAVDD/2	Output terminal for tracking control. D/A output.	
21	FDO	Output	ADAVDD/2	Output terminal for focus control. D/A output.	
22	SPDO	Output	ADAVDD/2	Output terminal for spindle control. D/A output.	
23	SLDO	Output	ADAVDD/2	Output terminal for sled control. D/A output.	
24*	GPDAC	Output	ADAVDD/2	Servo D/A general-purpose output terminal.	
25	CONT4	Input/Output	Input Mode	General-purpose I/O terminal 4.	Controlled by commands from the microcomputer. When not used, set them as input terminals and connect to 0 V, or set them as output terminals and leave open.
26	CONT5	Input/Output	Input Mode	General-purpose I/O terminal 5.	
27*	SBCK/CONT6	Input/Output	Input Mode	General-purpose I/O terminal 6 or Subcode reading clock input terminal.	
28	SBCK/FG	Input	—	Subcode reading clock input terminal/FG signal input terminal/external emphasis setting terminal. Terminal functions are set by commands. When not used, connect to 0 V.	
29*	DEFECT	Output	L	Defect terminal.	
30*	V/*P	Output	H	Auto switching monitor output terminal for rough servo phase control. “H”: rough servo, “L”: phase servo.	
31*	FSEQ	Output	L	Sync signal detection output terminal. The status changes to “H” when the sync signal detected in EFM and the sync signal of internal generation are identified.	
32*	MONI1	Output	L	Internal signal monitor terminal 1.	
33*	MONI2	Output	L	Internal signal monitor terminal 2.	
34*	MONI3	Output	L	Internal signal monitor terminal 3.	
35*	MONI4	Output	L	Internal signal monitor terminal 4.	
36*	MONI5	Output	L	Internal signal monitor terminal 5.	
37	VSS	—	—	Digital system earth terminal. To be connected to 0 V.	
38	VDD	Input	—	Digital system power terminal.	
39*	DOUT	Output	L	Digital OUT output terminal. (EIAJ format)	
40	TEST	Input	L	Input terminal for test. To be connected to 0 V.	
41	LVDD	Input	—	Left channel D/A converter	Power supply for Left channel.
42	LCHO	Output	LVDD/2		Left channel output.
43	LVSS	—	—		GND for Left channel. Must be connected to 0 V.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

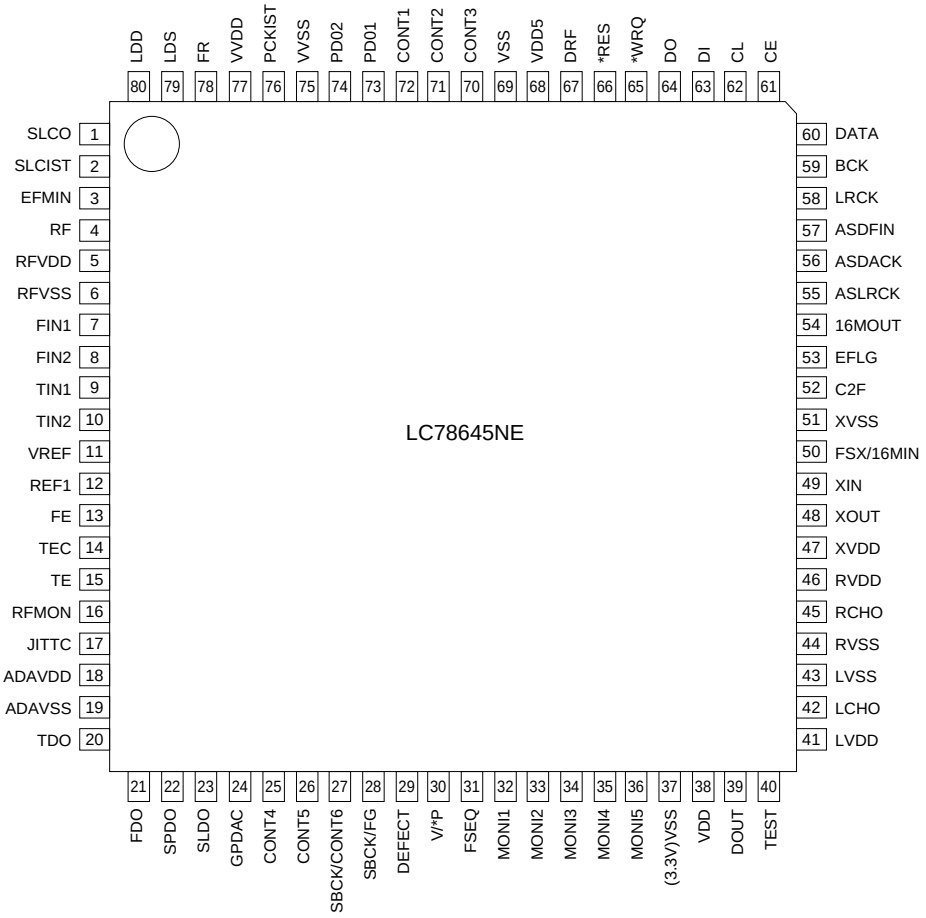
IC1 VHiLC78645NE1: CD Servo (LC78645NE) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	RVSS	—	—	Right channel D/A converter	GND for Right channel. Must be connected to 0 V.
45	RCHO	Output	LVDD /2		Right channel output.
46	RVDD	Input	—		Power supply for Right channel.
47	XVDD	Input	—	Crystal Oscillator	Power supply for crystal oscillator.
48	XOUT	Output	—		Connected for the 33.8688 MHz crystal oscillator ciement.
49	XIN	Input	—		
50	FSX/16MIN	Input/Output	Input	7.35 kHz Synchronization signal monitor port. or Clock input port for Digital filter & D/A	
51	XVSS	—	—	Crystal Oscillator	GND for crystal oscillator. Must be connected to 0 V.
52*	C2F	Output	H	C2 FLAG monitor port.	
53*	EFLG	Output	L	C1, C2 error corrected monitor port.	
54*	16MOUT	Output	Clock	16.9344 MHz output port.	
55	ASLRCK	Input	—	Anti-shock	Word clock input port. (If this port does not use, must be connect to 0 V.)
56	ASDACK	Input	—		Bit clock input port. (If this port does not use, must be connect to 0 V.)
57	ASDFIN	Input	—		Left/Right channel data input port. (If this port does not use, must be connect to 0 V.)
58*	LRCK	Output	L	Digital data	Word clock output port.
59*	BCK	Output	L		Bit clock output port.
60*	DATA	Output	L		Left/Right channel data output port.
61	CE	Input	—	Microcomputer Interface	Chip enable signal input port.
62	CL	Input	—		Data transfer clock input port.
63	DI	Input	—		Data input port.
64	DO	Output	(H)		Data output port. (N-ch. open drain output.)
65	*WRQ	Output	H		Interruption signal output.
66	*RES	Input	—	Chip reset signal input port. This port must be set LOW after first applied power on.	
67	DRF	Output	L	Focus detection output port.	
68	VDD5	Input	—	Power supply for Microprocessor.	
69	VSS	—	—	GND for digital circuit. Must be connected to 0 V.	
70	CONT3	Input/Output	Input	General purpose port 1.	Controlled with serial data command from micro-computer. When not used, General purpose input/ output terminal 7. set it as the input terminal and open it by connecting to 0 V, or set it as the output terminal and open it.
71	CONT2	Input/Output	Input	General purpose port 2.	
72*	CONT1	Input/Output	Input	General purpose port 3.	
73	PDO1	Output	—	PLL	Internal VCO control phase comparator output port 1.
74	PDO2	Output	Input		Internal VCO control phase comparator output port 2.
75	VVSS	—	—		GND for internal VCO. Must be connected to 0 V.
76	PCKIST	Input	—		PDO output current adjustment resistor connection port.
77	VVDD	Input	—		Power supply for internal VCO.
78	FR	Input	—		VCO frequency range adjustment port.
79	LDS	Input	—	LASER power detected signal input port.	
80	LDD	Output	—	LASER power control signal output port.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

Be sure to supply the same potential to each power terminal. (VVDD, ADAVDD, VDD, LVDD, RVDD, XVDD)
Terminal witch is controlled by the power terminal (VDD5 V) for a microcomputer interface :
CE (61 pin), CL (62 pin), DI (63 pin), DO (64 pin), WRQ (65 pin), RES (66 pin), DRF (67 pin)

IC1 VHiLC78645NE1: CD Servo (LC78645NE)



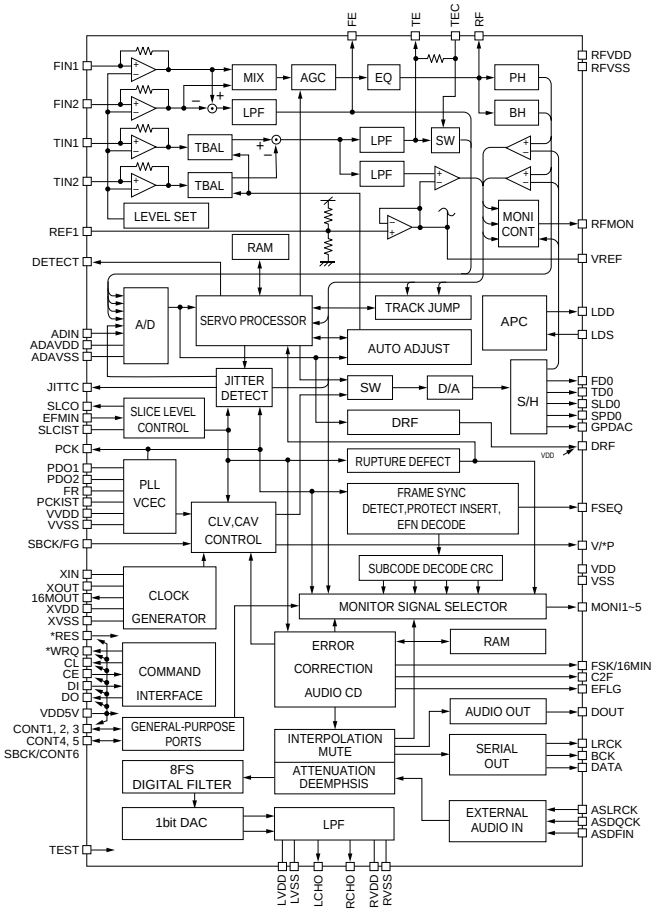
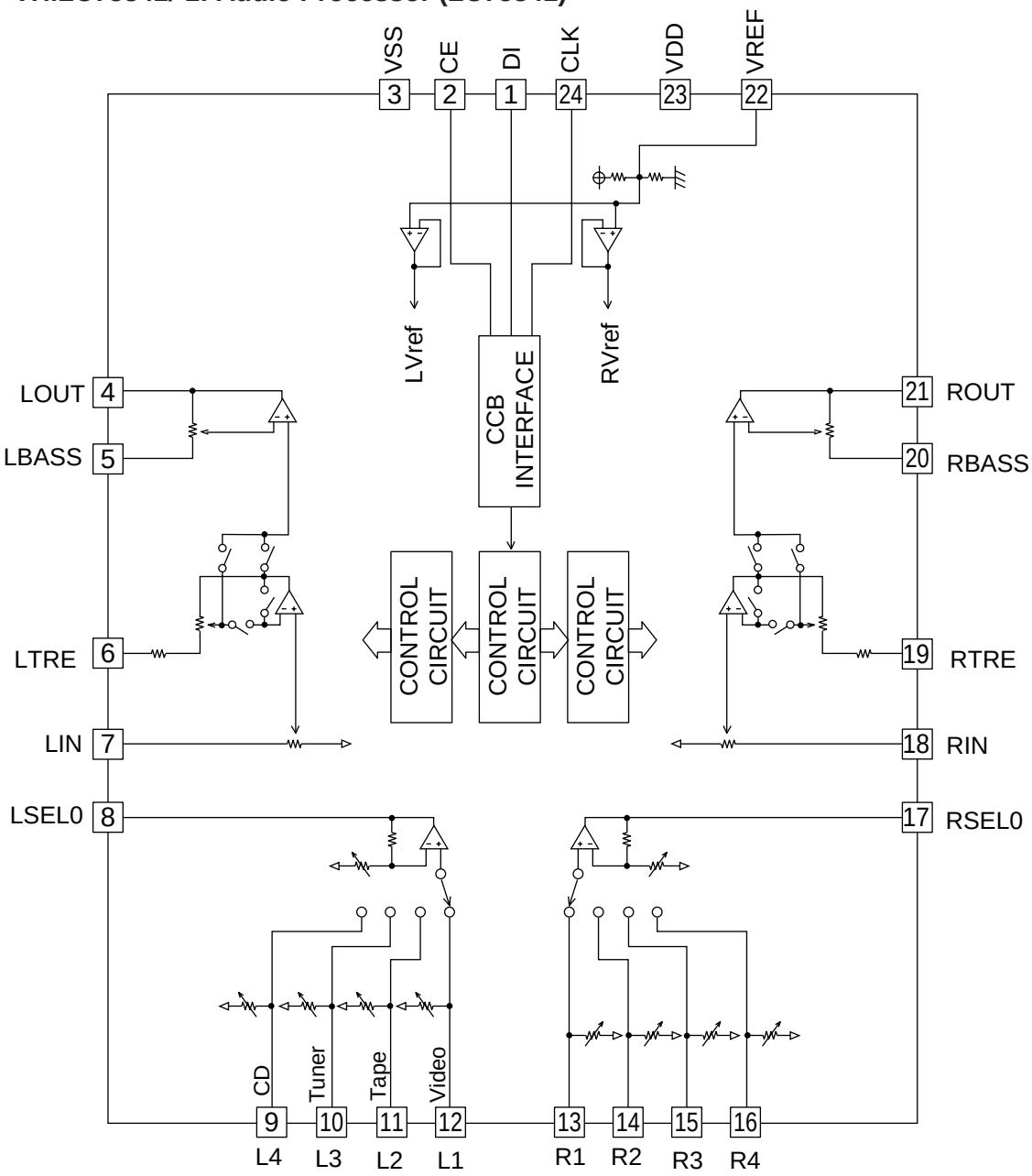


Figure 42 BLOCK DIAGRAM OF IC

IC601 VHiLC75341/-1: Audio Processor (LC75341)



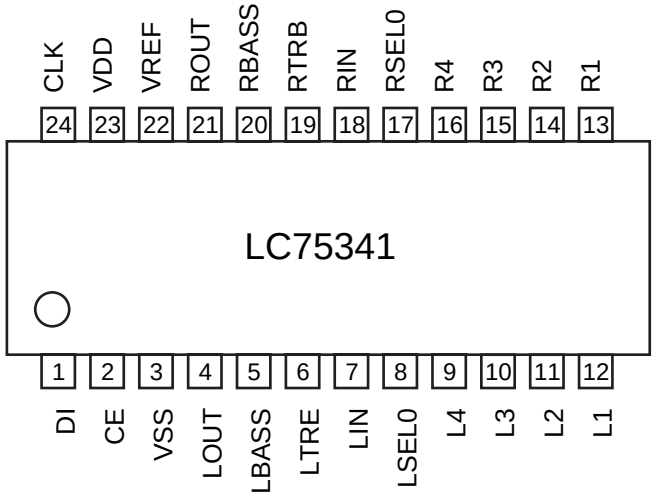


Figure 43 BLOCK DIAGRAM OF IC

IC701 RH-iX0524AWZZ: System Microcomputer (IX0524AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	Input	(+) Power supply.
2	P37	-20dBATT	Output	-20dB Attenuator.
3*	P36	NO USE	Output	Open
4	P35	T-BIAS	Output	Tape record bias.
5	P34	T_T1/T2	Output	Tape T1/T2 change.
6	P33	T-REC/PLAY	Output	Tape REC/PLAY change.
7	P32	CD RESOUT	Output	CD DSP reset.
8	P31	CD_WRQ	Input	CD write read request..
9	P30	NO USE	Input	Connect to GND.
10	RESET	RESET	Input	Reset.
11	X2	X2	Output	Main clock.
12	X1	X1	Input	Main clock.
13	VPP/IC	VPP/IC	—	GND
14*	XT2	XT2	—	Open
15	P04	CD_DRF	Input	CD DRF level detection.
16	VDD	VDD	Input	(+) Power supply.
17	P27	CD CLK	Output	CD DSP clock.
18	P26	CD DI	Output	CD DSP command.
19	P25	CD DO	Input	CD DSP CODE Q out.
20	P24	CD CE	Output	CD DSP CE output.
21	P23	CE	Output	CE output.
22	P22	CLK	Output	Clock output.
23	P21	DI	Output	Data output.
24	P20	DO	Input	Data input.
25	AVSS	AVSS	—	Analog ground.
26	P17	DISC_NO SW	Input	CD DISC No. SW.
27	ANI6	TUN SM	Input	Tuner signal meter input.
28	ANI5	T2_PLAY SW/FPA/FPB SW	Input	Tape F.P A/B SW & PLAY 2 SW.
29	ANI4	PROTECT	Input	Power abnormal detect.
30	ANI3	LVL_DET	Input	Speaker output level detect.
31-33	ANI2-ANI0	KEY 2-KEY 0	Input	Key input.
34	AVDD	AVDD	Input	Analog VDD.
35	AVREF	AVREF	—	Analog ref voltage.
36	INTP3	P_IN	Input	Power failure detect.
37	P02	CD CLAMP SW	Input	CD CLAMP SW.
38	INTP1	SP DET	Input	Speaker abnormal detect.
39	INTP0	REMOCON	Input	Remocon input.
40	VSS	VSS	—	Ground voltage.
41	P74	SMUTE	Output	System mute control.
42	P73	T_SOL_B	Output	Tape 2 solenoid control.
43	P72	T_SOL_A	Output	Tape 1 solenoid control.
44	P71	T_MOTOR	Output	Tape motor control.
45	P70	TIMER LED	Output	Timer LED control.
46	VDD	VDD	Input	(+) Power supply.
47	P127	AC_RLY	Output	AC relay control.
48	P126	SP_RLY	Output	Speaker relay control.
49	P125	JOG 1	Input	Volume jog input 1.
50	P124	JOG 2	Input	Volume jog input 2.
51	P123	T 2_RUN	Input	TAPE 2 RUN PULSE input.
52	P122	T 1_RUN	Input	TAPE 1 RUN PULSE input.
53*	P121	MONST LED	Output	Monster LED.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iX0524AWZZ: System Microcomputer (IX0524AW) (2/2)

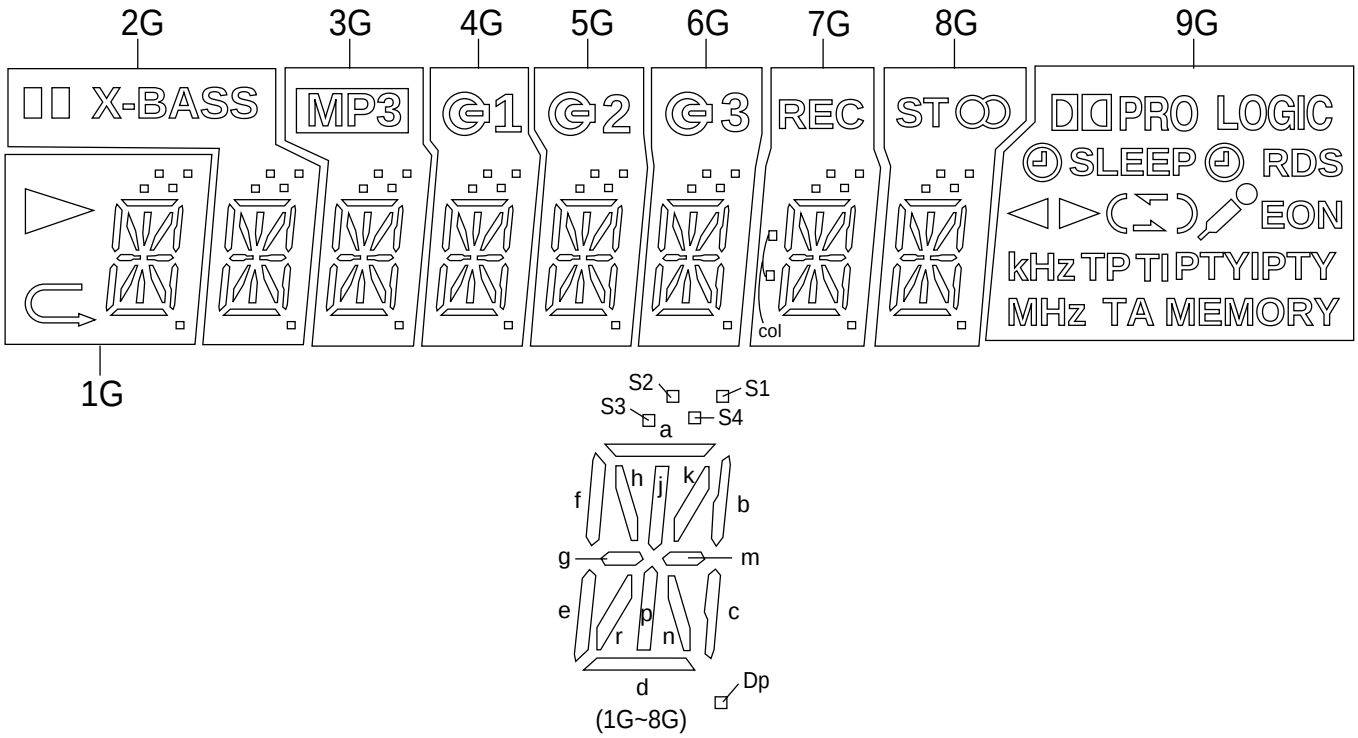
Pin No.	Port Name	Terminal Name	Input/Output	Function
54	P120	O/C SW	Input	CD OPEN/CLOSE SW.
55	P117	MIC SW	Input	Mic switch input.
56*	P116	KARA_LATCH	Output	Karaoke latch. (When not used. Connect to 0 V.)
57*	P115	NO USE	Output	Open
58*	P114	MPEG POWER	Output	MPEG power control.
59	P113	RDS RST	Output	RDS RAM reset.
60	P112	RDS RDDA	Input	RDS data input.
61	P111	RDS RDCL	Output	RDS clock.
62	P110	RDS READY	Intput	RDS ready.
63	P107	ILU_LED1	Output	Illumination LED1.
64*	P106	ILU_LED2	Output	Illumination LED2.
65*	P105	ILU_LED3	Output	Illumination LED3.
66	P104	FOR PLY_LED	Output	Forward play LED.
67*	P103	PEV PLY_LED	Output	Reverse play LED.
68	P102	STOP_LED	Output	Stop LED.
69	FIP30	DIST	Input	Distination input.
70	FIP29	S21	Output	FL segment driver.
71-74	P97-P94	S20-S17/DIST3-0	Output	Distination output./FL segment driver.
75-78	FIP24-FIP21	S16-S13	Output	FL segment driver.
79	VLOAD	VLOAD	Input	FL driver power supp. -30 V
80-91	FIP20-FIP9	S12-S1	Output	FL segment driver.
92-100	FIP8-FIP0	G9-G1	Output	FL grid driver.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

FL DISPLAY

FL701 VVKNA09SS29-1

GRID ASSIGNMENT



ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G
P1	▷	X-BASS	MP3	G1	G2	G3	col	∞	PTY I
P2	S1	S1	S1	S1	S1	S1	S1	S1	—
P3	S2	S2	S2	S2	S2	S2	S2	S2	TA
P4	S3	S3	S3	S3	S3	S3	S3	S3	TP
P5	S4	S4	S4	S4	S4	S4	S4	S4	RDS
P6	a	a	a	a	a	a	a	a	TI
P7	b	b	b	b	b	b	b	b	▷
P8	k	k	k	k	k	k	k	k	◁
P9	j	j	j	j	j	j	j	j	MEMORY
P10	h	h	h	h	h	h	h	h	PTY
P11	f	f	f	f	f	f	f	f	)
P12	m	m	m	m	m	m	m	m	(
P13	d	d	d	d	d	d	d	d	MHz
P14	g	g	g	g	g	g	g	g	◁
P15	p	p	p	p	p	p	p	p	kHz
P16	e	e	e	e	e	e	e	e	EON
P17	n	n	n	n	n	n	n	n	PRO LOGIC
P18	r	r	r	r	r	r	r	r	↗
P19	c	c	c	c	c	c	c	c	(L)
P20	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp	(H)
P21	↺	▯▯	—	—	—	—	REC	ST	SLEEP

SHARP PARTS GUIDE

MINI COMPONENT SYSTEM

MODEL CD-XP500H

CD-XP500H Mini Component System consisting of CD-XP500H (main unit) and CP-XP500H (speaker system).

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK ..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN ..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN ..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-XP500H

NO.	PART CODE	★	PRICE RANK	DESCRIPTION

CD-XP500H

INTEGRATED CIRCUITS

IC1	VHILC78645NE1	J	AY	CD Servo,LC78645NE
IC2	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Sled Driver, M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J	AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC601	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC701	RH-IX0524AWZZ	J	AM	System Microcomputer, IX0524AW
IC851	VHIKIA7812AP1	J	AF	Voltage Regulator,KIA7812AP
IC852	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC853	VHIKIA7805AP1	J	AF	Voltage Regulator,KIA7805AP
IC854	VHIAN78L05/-1	J	AE	Voltage Regulator,AN78L05
IC855	VSKTC2026//-1	J	AF	Silicon,NPN,KTC2026
IC901	VHISTK41223-1	J	BH	Power Amp.,STK41223
ICT21	VHILC72723/-1	J	AR	RDS Decorder,LC72723

TRANSISTORS

Q1	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q2	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q3	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q101~104	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
Q105~108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q110	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q111	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q112	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q113,114	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q301	VS2SC380-O/-1	J	AC	Silicon,NPN,2SC380 O
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q601~604	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q701	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q703	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q705	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q706~708	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q709,710	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q801	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q841	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q901~905	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q906	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
QT21	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR

DIODES

D1,2	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D301~304	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D703,704	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D709~715	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D801,802	VHDD10XB60F-1	J	AL	Silicon,D10XB60F
D803~806	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D842~845	VHD1N4004S/-1	J	AB	Silicon,1N4004S
⚠ D846	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D851~853	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D855~859	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D905~907	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D909,910	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D911,912	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
LED701	VHPSLR342VCJ1	J	AC	LED,Red,SLR342VCJ
LED703,704	VHPA503BC2E-1	J	AN	LED,White,A503BC2E
LED706	VHP4204UYT7-1	J	AD	LED,Yellow,4204UYT7
LED708	VHP4204UYT7-1	J	AD	LED,Yellow,4204UYT7
ZD1	VHEDZ3R3BSB-1	J	AB	Zener,3.3V,DZ3.3BSB
ZD2	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD801,802	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
ZD803	VHEDZ300BSB-1	J	AB	Zener,30V,DZ30BSB
ZD852	VHEDZ8R2BSB-1	J	AB	Zener,8.2V,DZ8.2BSB
ZD902,903	VHEDZ120BSB-1	J	AB	Zener,12V,DZ12BSB
ZDT21	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB

FILTERS

CF301,302	RFILF0072AFZZ	J	AG	FM IF
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

⚠ PT801	RTRNP0405AWZZ	J		Power
⚠ PT841	RTRNP0313AWZZ	J	AN	Power
T303	RCILA0052AWZZ	J	AE	AM Antenna
T306	RCILB0067AWZZ	J	AD	AM OSC.
T351	RCILI0019AWZZ	J	AD	AM IF

COILS

L1	VP-XHR82K0000	J	AC	0.82 µH,Choke
L103	VP-MK331K0000	J	AB	330 µH,Choke
L341	RBLN-0002AWZZ	J	AE	Balun
L342	VP-DH2R2K0000	J	AB	2.2 µH,Peaking
L351,352	VP-DH101K0000	J	AB	100 µH,Choke
L354	RFILL0001AWZZ	J	AE	Low Pass Filter
L701	VP-DH101K0000	J	AB	100 µH,Choke
L702	VP-DH2R2K0000	J	AB	2.2 µH,Peaking
⚠ L841	RCILZ0022AWZZ	J	AG	AC Line Filter
L901,902	RCILZ0137AFZZ	J	AA	0.29 µH
L920,921	RCILZ0137AFZZ	J	AA	0.29 µH
LT21,22	VP-XH2R2K0000	J	AB	2.2 µH,Choke

VARIABLE CAPACITOR

VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S

VIBRATORS

X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0019AWZZ	J	AF	Crystal,4.5 MHz
XL1	RCRM-0041AWZZ	J	AF	Ceramic,33.8688 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal,4.194304 MHz
XT21	RCRSP0014AWZZ	J	AF	Crystal,4.332 MHz

CAPACITORS

C1	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C2	VCKYCY1CB103K	J	AA	0.01 µF,16V
C3	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C4	VCKYCY1HB102K	J	AA	0.001 µF,50V
C5	VCKYCY1HB473K	J	AB	0.047 µF,50V
C6	VCKYCY1CB104K	J	AB	0.1 µF,16V
C8	VCKYCY1HB272K	J	AA	0.0027 µF,50V
C9	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C10	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C11	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
C12	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C13	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C14	RC-EZY107AF1A	J	AB	100 µF,10V,Electrolytic
C16	RC-EZY337AF0J	J	AA	330 µF,6.3V,Electrolytic
C18	RC-EZY107AF1A	J	AB	100 µF,10V,Electrolytic
C22	VCKYCY1CB103K	J	AA	0.01 µF,16V
C23,24	RC-EZY106AF1E	J	AB	10 µF,25V,Electrolytic
C25,26	VCKYCY1HB152K	J	AA	0.0015 µF,50V
C27	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C28	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C30	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C32	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C33	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C34	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C35	VCKYCY1HB473K	J	AB	0.047 µF,50V
C36	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
C37	VCTYPA1CX104K	J	AB	0.1 µF,16V
C38	VCKYCY1CB103K	J	AA	0.01 µF,16V
C39	RC-EZY107AF1A	J	AB	100 µF,10V,Electrolytic
C40	VCEAZA0JW227M	J	AC	220 µF,6.3V,Electrolytic
C41	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C42	VCKYCY1CB103K	J	AA	0.01 µF,16V
C44	VCKYCY1HB102K	J	AA	0.001 µF,50V
C46	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C48	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C50	VCCCCY1HH220J	J	AA	22 pF (CH),50V
C51	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C52,53	VCKYCY1HB102K	J	AA	0.001 µF,50V
C54	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C57	VCCCCY1HH560J	J	AA	56 pF (CH),50V

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
C101,102	VCKYMN1HB561K	J	AA	560 pF,50V
C103	VCKYBT1HB181K	J	AA	180 pF,50V
C104	VCKYMN1HB181K	J	AA	180 pF,50V
C105,106	VCKYMN1HB561K	J	AA	560 pF,50V
C107~110	VCKYMN1HB331K	J	AA	330 pF,50V
C111,112	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C113,114	VCTYPA1EX333K	J	AA	0.033 µF,25V
C115,116	VCKYMN1HB561K	J	AA	560 pF,50V
C117,118	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C119,120	VCTYMN1CX222K	J	AA	0.0022 µF,16V
C121	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C123,124	VCKYMN1HB271K	J	AA	270 pF,50V
C125,126	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C127,128	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C129,130	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C131,132	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C133	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C134	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C135	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C137	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C138	VCQPKA2AA822J	J	AA	0.0082 µF,100V,Polypropylene
C139	VCQYKA1HM393K	J	AB	0.039 µF,50V,Mylar
C140	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C141	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C143	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C302	VCKYBT1HB102K	J	AA	0.001 µF,50V
C321	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C323	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C330	VCCUMN1HJ150J	J	AA	15 pF (UJ),50V
C331	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C332	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C334	VCCUMN1HJ220J	J	AA	22 pF (UJ),50V
C335	VCKYMN1HB561K	J	AA	560 pF,50V
C338	VCKYMN1HB102K	J	AA	0.001 µF,50V
C341,342	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C345~347	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C348	VCTYMN1EF103Z	J	AB	0.01 µF,25V
C350,351	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C352	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C355	VCCSMN1HL220J	J	AA	22 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 µF,50V
C357	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C358	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C362	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C364	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C365	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C366	VCKYMN1HB102K	J	AA	0.001 µF,50V
C367,368	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C369	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V
C370~372	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX273K	J	AA	0.027 µF,16V
C380	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C383	VCCSBT1HL470J	J	AA	47 pF,50V
C384	VCKYMN1HB102K	J	AA	0.001 µF,50V
C385	VCTYMN1CY103N	J	AA	0.01 µF,16V
C386	VCKYMN1HB331K	J	AA	330 pF,50V
C387	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C388	VCKYMN1HB102K	J	AA	0.001 µF,50V
C389	VCKYBT1HB102K	J	AA	0.001 µF,50V
C391	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C394	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C395	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C396	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C397	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C398	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C399	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C601	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C602	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C603	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C605~608	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film
C609,610	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C611,612	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C613,614	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C615,616	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C617~624	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C625,626	VCKYMN1HB561K	J	AA	560 pF,50V
C635~638	VCKYMN1HB102K	J	AA	0.001 µF,50V
C639	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C640	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C651~653	VCKYMN1HB221K	J	AA	220 pF,50V
C690,691	VCKYMN1HB391K	J	AA	390 pF,50V
C701	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C702	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C703	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C704	VCCSMN1HL150J	J	AA	15 pF,50V
C705	VCCSMN1HL180J	J	AA	18 pF,50V
C706	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C707	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C709,710	VCKYMN1HB102K	J	AA	0.001 µF,50V
C712	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C714	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C715	VCTYMN1CY103N	J	AA	0.01 µF,16V
C716	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C717	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C718,719	VCKYMN1HB101K	J	AA	100 pF,50V
C720	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C801	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C802,803	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C804	VCEAZV1JW227M	J	AC	220 µF,63V,Electrolytic
C805	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C806~809	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C810,811	VCQYKU2AM224K	J	AB	0.22 µF,100V,Mylar
C841	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
C842	VCEAZV1VW477M	J	AD	470 µF,35V,Electrolytic
C843	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
⚠ C844	RC-KZ002LAWZZ	J	AC	0.0047 µF,250V,Ceramic
C851	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C852	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C853	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C854,855	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C856	VCEAZW1VW338M	J	AH	3300 µF,35V,Electrolytic
C857	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C858	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C859	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C860	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C861	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C862	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C863	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C864	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C865	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C901,902	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C903,904	VCKYMN1HB221K	J	AA	220 pF,50V
C905,906	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C907	VCKYMN1HB101K	J	AA	100 pF,50V
C908	VCCCMN1HH3R3K	J	AA	3.3 pF (CH),50V
C909	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C910	VCCCMN1HH3R3K	J	AA	3.3 pF (CH),50V
C911,912	VCEAZV2AW107M	J	AE	100 µF,100V,Electrolytic
C913	VCKYMN1HB101K	J	AA	100 pF,50V
C914,915	VCEAZV2AW107M	J	AE	100 µF,100V,Electrolytic
C916	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C917	VCQYKA1HM223K	J	AB	0.022 µF,50V,Mylar
C918	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C919	VCQYKA1HM223K	J	AB	0.022 µF,50V,Mylar
C920	RC-EZ0029AWZZ	J	AN	3300 µF,71V,Electrolytic
C921,922	RC-EZ0061AWZZ	J	AE	4700 µF,35V,Electrolytic
C923	RC-EZ0029AWZZ	J	AN	3300 µF,71V,Electrolytic
C925	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C926~929	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film
C930	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C931	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C934~941	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C942,943	VCKYPA1HB102K	J	AA	0.001 µF,50V
C946	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
CT21	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CT22	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CT23	VCCCMN1HH220J	J	AA	22 pF (CH),50V
CT24	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CT25	VCCCMN1HH220J	J	AA	22 pF (CH),50V
CT26	VCKYMN1HB561K	J	AA	560 pF,50V
CT27~30	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CT31,32	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRS-CY1JB000J	J	AA	0 ohm,Jumper,0.8×1.55mm,Green

CD-XP500H

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R1,2	VRS-CY1JB822J	J	AA	8.2 kohms,1/16W
R3	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R4,5	VRS-CY1JB822J	J	AA	8.2 kohms,1/16W
R6	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R7	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R9	VRD-ST2CD3R3J	J	AA	3.3 ohms,1/6W
R10	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R11	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R12	VRS-CY1JB331J	J	AA	330 ohms,1/16W
R13~18	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R20	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R22	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R23	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R24,25	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R26,27	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R28,29	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R31	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R32~38	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R39,40	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R41	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R42	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W
R43	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R44	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R45,46	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R47	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R49	VRD-ST2EE1R0J	J	AA	1 ohm,1/4W
⚠ R51	VRG-ST2EG3R3J	J	AB	3.3 ohms,1/4W,Fusible
R101,102	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R112	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R113,114	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R115,116	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R117,118	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R119,120	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R121,122	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R123,124	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R126,127	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R128,129	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R130,131	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R132,133	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R134,135	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R136	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R137	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R138	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R139	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R140	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R141	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R142	VRD-RT2HD820J	J	AA	82 ohms,1/2W
R143	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R144	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R145	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W
R146,147	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R148	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R149	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R150	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R336	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R344	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R345	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R346	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R347	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R348	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R349	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R350	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R365	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R369	VRD-MN2BD150J	J	AA	15 ohms,1/8W
R370	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R372~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R378	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R384	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R386	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R387	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R388	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R393	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R395	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R399	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R601~603	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R604	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R605	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R606,607	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R608,609	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R610,611	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R612,613	VRD-MN2BD391J	J	AA	390 ohms,1/8W
R614,615	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R616,617	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R618,619	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R620	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R621	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R643,644	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R690,691	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R692,693	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R702	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R703~706	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R708~715	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R716	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R717	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R718	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R719	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R720~723	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R724,725	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R726,727	VRD-ST2CD681J	J	AA	680 ohms,1/6W
R728	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R729	VRD-ST2CD561J	J	AA	560 ohms,1/6W
R730	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R731	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R732~736	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R737	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R739	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R740	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R742~746	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R747	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R749	VRD-ST2CD271J	J	AA	270 ohms,1/6W
R750	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R751	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R752	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R756	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R757	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R758	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R759	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R761,762	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R763	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R764	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R765	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R766~768	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R769	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R770	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R772,773	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R775~778	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R779	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R780	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R781	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R782	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R783	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R788,789	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R791	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R792	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R793	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R794,795	VRD-ST2EE1R5J	J	AA	1.5 ohms,1/4W
R796,797	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R798	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R800	VRD-ST2CD102J	J	AA	1 kohm,1/6W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R801	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R802	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R803	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R804,805	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R806	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R808	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R809	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R841	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R842	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R843	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R852	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R853	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R854	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R858	VRD-MN2BD221J	J	AA	220 ohms,1/8W
R859	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R860	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R901,902	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R903,904	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R905,906	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R907	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R908	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R909	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R910	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R911	VRD-ST2CD563J	J	AA	56 kohms,1/6W
⚠ R912	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R913	VRN-VV3LAR22J	J	AC	0.22 ohms,3W
R916	VRN-VV3LAR22J	J	AC	0.22 ohms,3W
R917	VRN-VV3LAR10J	J	AD	0.1 ohm,3W
R918	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R919,920	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R921	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R922	VRN-VV3LAR10J	J	AD	0.1 ohm,3W
R925,926	VRD-RT2HD152J	J	AA	1.5 kohms,1/2W
R927,928	VRD-ST2EE393J	J	AA	39 kohms,1/4W
R929,930	VRD-ST2EE473J	J	AA	47 kohms,1/4W
R934,935	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R937	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R938~941	VRD-RT2HD100J	J	AA	10 ohm,1/2W
R942,943	VRS-VV3DA471J	J	AB	470 ohms,2W
R944,945	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R946	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R947	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R949	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R950	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R952~955	VRD-ST2EE6R8J	J	AA	6.8 ohms,1/4W
⚠ R958	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
RD01	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD02	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD03	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RD04	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD10	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD11	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD12	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RD13	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD14	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD15	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD16	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD17	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RD18	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RD19	VRD-ST2CD681J	J	AA	680 ohms,1/6W
RD20	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD21	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RD22	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD23	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RD24	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
RD25	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD26	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RT21	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RT22,23	VRD-ST2EE391J	J	AA	390 ohms,1/4W
RT24	VRD-MN2BD563J	J	AA	56 kohms,1/8W
RT25	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RT26	VRD-MN2BD563J	J	AA	56 kohms,1/8W
RT27~30	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RT31	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RT32	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W

OTHER CIRCUITRY PARTS

BI4/CNS4	QCNWN1572AWZZ	J	AF	Connector Ass'y,6/6Pin
BI601/CNS601	QCNWN2259AWZZ	J	AH	Connector Ass'y,8/8Pin
BI701/CNS8	QCNWN2172AWZZ	J	AH	Connector Ass'y,10/10Pin
BI703/CNS703	QCNWN2174AWZZ	J	AD	Connector Ass'y,2/2Pin

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
BI704/CNS704	QCNWN2174AWZZ	J	AD	Connector Ass'y,2/2Pin
BI705/CNS705	QCNWN2253AWZZ	J	AF	Connector Ass'y,6/6Pin
BI801/CNS801	QCNWN2255AWZZ	J	AH	Connector Ass'y,10/10Pin
CNP1	QCNCM704GAWZZ	J	AC	Plug,7Pin
CNP2	QCNCM704HAWZZ	J	AC	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin
CNP4	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP7	92LCONE8P53254	J	AC	Plug,8Pin
CNP8	92LCONEAP53254	J	AD	Plug,10Pin
CNP101	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNP102	QCNCM705GAFZZ	J	AB	Plug,7Pin
CNP302	92LCONE2P5268	J	AB	Plug,2Pin
CNP303	QCNCM010GAWZZ	J	AC	Plug,7Pin
CNP701	QCNCWZX25AWZZ	J	AD	Plug,25Pin
CNP701A	QCNCWZF25AWZZ	J	AE	Plug,25Pin
CNP703,704	92LCONE2P53253	J	AB	Plug,2Pin
CNP705	QCNCW026EAWZZ	J	AE	Plug,5Pin
CNP801	92LCONEAP5267X	J	AC	Plug,10Pin
CNP802	92LCONE6P53253	J	AC	Plug,6Pin
CNP971	92LCONE2P53253	J	AB	Plug,2Pin
CNS1A/B	QCNWN1537AWZZ	J	AG	Connector Ass'y,7/7Pin
CNS2A/B	QCNWN1538AWZZ	J	AG	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1539AWZZ	J	AE	Connector Ass'y,6/6Pin
CNS303	QCNCW010GAWZZ	J	AC	Socket,7Pin
CNS702	QCNCWZY08AWZZ	J	AC	Plug,8Pin
CNS971	QCNWN1389AWZZ	J	AC	Connector Ass'y,2Pin
⚠ F801,802	QFS-D502CAWNI	J	AC	Fuse,T5A L 250V
⚠ F803,804	QFS-D202CAWNI	J	AC	Fuse,T2A L 250V
⚠ F805	QFS-D252CAWNI	J	AC	Fuse,T2.5A L 250V
FE301	RTUNS0026AWZZ	J	AU	FM Front End
FFC701	QCNWN2182AWZZ	J	AG	Flat Cable,25Pin
FFC702	QCNWN1838AWZZ	J	AD	Flat Cable,8Pin
FL701	VVKNA09SS29-1	J	AX	FL Display
FW802	QCNWN2256AWZZ	J		Flat Wire,4Pin
FW901	QCNWN2254AWZZ	J	AD	Flat,Wire,5Pin
JK690	QSOCJ0224AWZZ	J	AC	Jack,Video/AUX
JK701	QJAKM0004AWZZ	J	AK	Jack,Headphones
JOG701	QSW-Z0013AWZZ	J	AF	Switch,Push Type [Jog Volume]
LG1~3	QLUGP0001AWZZ	J	AC	Lug
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	RMOTV0373AFZZ	J	AL	Motor with Worm Pulley [T/T Up/Down Loading]
M4	RMOTV0027AWZZ	J	AM	Motor,Air Cooling Fan
⚠ RL841	RRLYD0011AWZZ	J	AE	Relay
RL914	RRLYD0016AWZZ	J	AH	Relay
RX701	VHLGP1UM271-1	J	AH	Remote Sensor,GP1UM271
SO301	QTANC0105AWZZ	J	AE	Terminal,FM Antenna
SO901	QTANA0423AWZZ	J	AE	Terminal,Speaker
SW1	QSW-M0012AWZZ	J	AM	Switch,Leaf Type [Open/Close]
SW2	QSW-M0012AWZZ	J	AM	Switch,Leaf Type [Clamp]
SW3	QSW-M0012AWZZ	J	AM	Switch,Leaf Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]
SW701	92LSWICH1401AT	J	AC	Switch,Key Type [Power]
SW702	92LSWICH1401AT	J	AC	Switch,Key Type [Fast Rewind/Preset Down]
SW703	92LSWICH1401AT	J	AC	Switch,Key Type [Fast Forward/Preset Up]
SW704	92LSWICH1401AT	J	AC	Switch,Key Type [Stop]
SW705	92LSWICH1401AT	J	AC	Switch,Key Type [Play/Repeat]
SW711	92LSWICH1401AT	J	AC	Switch,Key Type [CD]
SW712	92LSWICH1401AT	J	AC	Switch,Key Type [Tuner (Band)]
SW713	92LSWICH1401AT	J	AC	Switch,Key Type [Tape]
SW714	92LSWICH1401AT	J	AC	Switch,Key Type [Video/Aux]
SW715	92LSWICH1401AT	J	AC	Switch,Key Type [Timer/Sleep]
SW716	92LSWICH1401AT	J	AC	Switch,Key Type [Tuning/Time Up]
SW717	92LSWICH1401AT	J	AC	Switch,Key Type [Rec Pause]
SW718	92LSWICH1401AT	J	AC	Switch,Key Type [Memory/Set]
SW719	92LSWICH1401AT	J	AC	Switch,Key Type [Tuning/Time Down]
SW720	92LSWICH1401AT	J	AC	Switch,Key Type [Clock]
SW723	92LSWICH1401AT	J	AC	Switch,Key Type [Disc Skip]
SW724	92LSWICH1401AT	J	AC	Switch,Key Type [Open/Close]
SW725	92LSWICH1401AT	J	AC	Switch,Key Type [Equalizer]
SW726	92LSWICH1401AT	J	AC	Switch,Key Type [X-Bass/Demo]
SW727	92LSWICH1401AT	J	AC	Switch,Key Type [Display Mode]
SW728	92LSWICH1401AT	J	AC	Switch,Key Type [ASPM]
SW729	92LSWICH1401AT	J	AC	Switch,Key Type [PTY.TI Search]
WTM801,802	QCNCW015DAWZZ	J	AB	Holder,Flat Wire
WTM901	QCNCW019EAWZZ	J	AB	Holder,Flat Wire

CD-XP500H

CD MECHANISM PARTS

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0080AWZZ	J	AC	Rail,Guide
304	NSFTM0020AWFW	J	AD	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×3.8×0.25mm
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	92LCAB3860AASY	J		Front Panel Ass'y
201- 1	————		—	Front Panel (Not Replacement Item)
201- 2	GCOVA1417AWSA	J	AH	Cover,Cassette [Tape 1]
201- 3	GCOVA1418AWSA	J	AH	Cover,Cassette [Tape 2]
201- 4	GCOVA1421AWSA	J	AC	Cover,Remote Sensor
201- 5	GCOVA1422AWSA	J	AB	Cover,LED,Timer
201- 6	GDORF0112AWSA	J	AE	Holder,Cassette [Tape 1]
201- 7	GDORF0113AWSA	J	AE	Holder,Cassette [Tape 2]
201- 8	HDECQ0834AWSA	J	AE	Panel,Cassette [Tape 1]
201- 9	HDECQ0835AWSA	J	AE	Panel,Cassette [Tape 2]
201-10	HDECQ0885AWSA	J	AL	Panel,Amp.
201-11	HDECQ0844AWSC	J	AE	Ring,Play/Stop
201-12	JKNBZ0879AWSA	J	AG	Button,Open/Close
201-13	JKNBZ0876AWSA	J	AD	Button,X-Bass/Equalizer
201-14	JKNBZ0865AWSA	J	AD	Button,Function
201-15	JKNBZ0884AWSA	J	AE	Button,Power
201-16	MLIFP0008AWZZ	J	AD	Damper
201-17	MSPRD0151AWFJ	J	AB	Spring,Cassette [Tape 1]
201-18	MSPRD0152AWFJ	J	AB	Spring,Cassette [Tape 2]
201-19	JKNBZ0878AWSA	J	AH	Button,Operation
201-20	GCOVA1434AWSA	J	AD	Cover,LED,Play
201-21	GCOVA1435AWSA	J	AD	Cover,LED,Stop
201-22	JKNBZ0882AWSA	J	AG	Button,RDS
202	92LCAB3838BASY	J	AN	Side Panel Ass'y,Left
202- 1	————		—	Side Panel,Left (Not Replacement Item)
202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
203	92LCAB3838CASY	J	AN	Side Panel Ass'y,Right
203- 1	————		—	Side Panel,Right (Not Replacement Item)
203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	GCAB-1197AWZZ	J	AM	Loading Tray
205	GCAB-1215AWSA	J	AT	Top Cabinet
206	GCOVA1416AWSC	J	AM	Cover,CD Tray
207	GITAR1003AWSA	J	AN	Rear Panel
208	KMECB0024AWZZ	J	BF	Tape Mechanism Ass'y
208- 1	92PF513-853	J	BL	Head Plate Block [Tape 2]
208- 2	92PF525-336	J	BE	Motor with Pulley [Tape]
208- 3	92PF567-677	J	—	Tape Mechanism PWB Ass'y
208- 4	92PFF19N-21	J	AL	Belt,Main [Tape 2]
208- 5	92PF514-133	J	AL	Pinch Roller
208- 6	92PF19S-31	J	AL	Belt,FF/REW [Tape 2]
208- 7	92PFF19N-11	J	AL	Belt,Main [Tape 1]
208- 8	92PF522-061	J	AZ	Clutch Ass'y Block [Tape 1]
208- 9	92PFF19S-52	J	AL	Belt,FF/REW [Tape 1]
208-10	92PF513-861	J	AG	Head Plate Block [Tape 1]
208-11	92PF522-063	J	AZ	Clutch Ass'y Block [Tape 2]
208-12	92PFD60F-11	J	AK	Cam Gear [Tape 1]
208-13	92PFR26C-11	J	AN	Flywheel [Tape 1]
208-14	92PFR26D-11	J	AN	Flywheel [Tape 2]
208-15	92PF765-292	J	AS	Solenoid Ass'y
208-16	92PFD58M-14	J	AK	Cam Gear [Tape 2]
209	LANGK0110AWFW	J	AE	Bracket,Cassette Lock,Tape 1
210	LANGK0111AWFW	J	AE	Bracket,Cassette Lock,Tape 2
211	LANGK0317AWFW	J	AF	Bracket,Fan Support
212	LBSHC0002AWZZ	J	AD	Bushing,AC Power Supply Cord
213	LCHSM0153AWFW	J	AQ	Chassis,Main
214	LCHSM0155AWZZ	J	AS	Chassis,Loading
215	LHLDM1018AWZZ	J	AE	Stabilizer
216	LHLDZ1357AWZZ	J	AH	Holder,CD Mechanism
217	LHLDZ1358AWZZ	J	AF	Holder,Stabilizer
218	LHLDZ1359AWZZ	J	AD	Holder,Gear
219	LHLDZ1410AWZZ	J	AD	Holder,FL Display
220	LHLDZ1412AWZZ	J	AC	Holder,LED
221	MCAMP0010AWZZ	J	AE	Gear,Cam Upper
222	MCAMP0011AWZZ	J	AE	Gear,Cam Lower
223	MLEVP0109AWZZ	J	AB	Lever,Cam Lock
224	MLEVP0110AWZZ	J	AB	Lever,Switch A
225	MLEVP0111AWZZ	J	AB	Lever,Switch B
226	MLEVP0112AWZZ	J	AB	Turntable Actuator
227	MLOKC0003AWZZ	J	AD	Lock Lever,Cassette,Tape 1
228	MLOKC0004AWZZ	J	AD	Lock Lever,Cassette,Tape 2
229	MSPRC0033AWFJ	J	AB	Spring,Friction
230	MSPRD0109AWFJ	J	AB	Spring,Cassette Lock,Tape 1
231	MSPRD0110AWFJ	J	AB	Spring,Cassette Lock,Tape 2
232	MSPRP0057AWFW	J	AC	Spring,Tray Lock
233	MSPRP0068AWFW	J	AB	Spring,Motor Gear
234	NFANP0001AWZZ	J	AD	Rotary Fan
235	NGERH0152AWZZ	J	AC	Gear,Turntable Drive
236	NGERH0153AWZZ	J	AC	Gear,Drive
237	NGERW0020AWZZ	J	AC	Gear,Center
238	NGERW0021AWZZ	J	AC	Gear,Idler
239	NGERW0022AWZZ	J	AD	Gear,Worm
240	NGERW0023AWZZ	J	AC	Gear,Motor
241	NTNT-0022AWZZ	J	AK	Turntable
242	PCUSG0022AWZZ	J	AB	Cushion,Leg
243	PMAGF0001AWZZ	J	AF	Magnet
244	PRDAR0236AWFW	J	AX	Heat Sink
⚠ 245	QACCB0009AW00	J	AL	AC Power Supply Cord
⚠ 245	QACCE0012AW00	J	AH	AC Power Supply Cord
246	QCNWN1860AWZZ	J	AC	Lug Wire
⚠ 247	QFSHD0001AWZZ	J	AB	Holder,Fuse
248	92LCSPR1431C	J	AA	Spring,Ring
249	92LMT0304302	J	AB	Plate,Metal
250	92LNBAND1318A	J	AA	Nylon Band,80mm
251	92LPT0303002	J	AB	Roller
254	HDECQ0837AWSA	J	AF	Light Panel
255	LHLDZ1411AWZZ	J	AE	Holder,Light Panel
256	GCOVA1419AWSA	J	AC	Light Cover,Right
257	GCOVA1420AWSA	J	AC	Light Cover,Left
258	PSHEP0086AWZZ	J	AE	Light Sheet
259	LHLDZ1417AWZZ	J	AE	Block,Button
260	JKNBK0092AWSA	J	AL	Knob,Volume
261	LANGK0327AWFW	J	AF	Bracket,Heat Sink
262	PSLDM3015AWFW	J	AD	Shield Plate,Tape Mechanism
263	LHLDZ1418AWZZ	J	AC	Holder,LED
264	TLABS0354AWZZ	J	AC	Label,Class 3A
⚠ 265	92LLUG1746A	J	AA	Terminal,Lug
601	LX-BZ0082AWFC	J	AE	Screw,Transport
602	LX-EZ0010AWFD	J	AA	Screw,Special
603	LX-HZ0009AWFD	J	AC	Screw,ø2×13mm
604	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
605	XBBSD20P04000	J	AA	Screw,ø2×4mm
606	XEBSD26P08000	J	AA	Screw,ø2.6×8mm
608	XEBSD30P10000	J	AA	Screw,ø3×10mm
609	XEBSD30P12000	J	AA	Screw,ø3×12mm
610	XESSD30P10000	J	AA	Screw,ø3×10mm
611	XHBSD26P04000	J	AA	Screw,ø2.6×4mm
612	XHBSD40P08000	J	AA	Screw,ø4×8mm
613	XJBSD20P05000	J	AA	Screw,ø2×5mm
614	XJBSD30P10000	J	AA	Screw,ø3×10mm
615	XJBSD30P12000	J	AA	Screw,ø3×12mm
618	XJSSD30P10000	J	AA	Screw,ø3×10mm
619	92LSC0310RBZI	J	AB	Screw,ø3×10mm
620	92LSC0314WBZI	J	AB	Screw,ø3×14mm
622	XHBSD30P06000	J	AA	Screw,ø3×6mm
623	XJBSD30P14000	J	AA	Screw,ø3×14mm

ACCESSORIES/PACKING PARTS

	————		—	Battery (Not Replacement Item)
	QANTL0008AWZZ	J	AH	AM Loop Antenna
	SPAKA0363AWZZ	J	AP	Packing Add.,Left/Right
	SPAKC1387AWZZ	J		Packing Case
	SPAKP0013AWZZ	J	AC	Polyethylene Bag,Unit
	SPAKZ0885AWZZ	J	AB	Sheet
	SPAKZ0891AWZZ	J	AB	Sheet,CD Tray Cover
	SSAKA0007AWZZ	J	AB	Polyethylene Bag,Accessories
	TCAUZ0129AWZZ	J	AB	Caution,Transport
	TINSZ0802AWZZ	J	AR	Operation Manual

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
	TLABE0659AWZZ	J		Label,Bar Code
	TLABZ0604AWZZ	J	AB	Label,Energy
	TLABZ0605AWZZ	J	AB	Label,Saving Energy
	TLABZ1034AWZZ	J	AC	Label,Feature [Tape 2]
	TLABZ1122AWZZ	J		Label,Feature [Tape 1]
	92LFANT1535A	J	AF	FM Antenna
	RRMCG0264AWSA	J	AQ	Remote Control
	GFTAB1022AWSB	J	AK	Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

⚠	PWB-A1~4	92LPWB3860MANS	J	—	Main/Power/Transformer/RDS (Combined Ass'y)
	PWB-B1~4	92LPWB3860DPLS	J	—	Display/Headphones/LED A/LED B (Combined Ass'y)
	PWB-C	92LPWB3838CDUS	J	—	CD Servo
	PWB-D	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
	PWB-E	QPWBF0749AWZZ	J	AD	CD Loading Motor (PWB Only)
	PWB-F	92PF567-677	J	—	Tape Mechanism

OTHER SERVICE PART

	UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner

CP-XP500H

SPEAKER BOX PARTS

901	GBOXS4016AWSB	J	BE	Speaker Box Ass'y,Left
902	GBOXS2016AWSB	J	BE	Speaker Box Ass'y,Right
903	CPNLS1055AW01	J	BB	Front Panel Ass'y,Left
904	CPNLS1057AW01	J	BB	Front Panel Ass'y,Right
905	PCUSG0022AWZZ	J	AB	Cushion,Leg
906	PFLT-0046AWZZ	J	AC	Felt
907	TSPC-1022AWZZ	J		Label,Specifications
908	QCNWN2216AWZZ	J	AL	Speaker Cord Ass'y (with Capacitor C1,2)
910	XJBSD30P10000	J	AA	Screw,ø3×10mm
911	XJBSD40P12000	J	AA	Screw,ø4×12mm
SP1,2	RSPA10054AWCW	J	AY	Woofer
SP3,4	RSPA10058AWCW	J	AY	Woofer
SP5,6	RSPA00047AW6T	J	BB	Tweeter

PACKING PARTS

	SPAKA0364AWZZ	J	AQ	Packing Add.,Top/Bottom
	SSAKH0089AWZZ	J	AD	Polyethylene Bag,Speaker

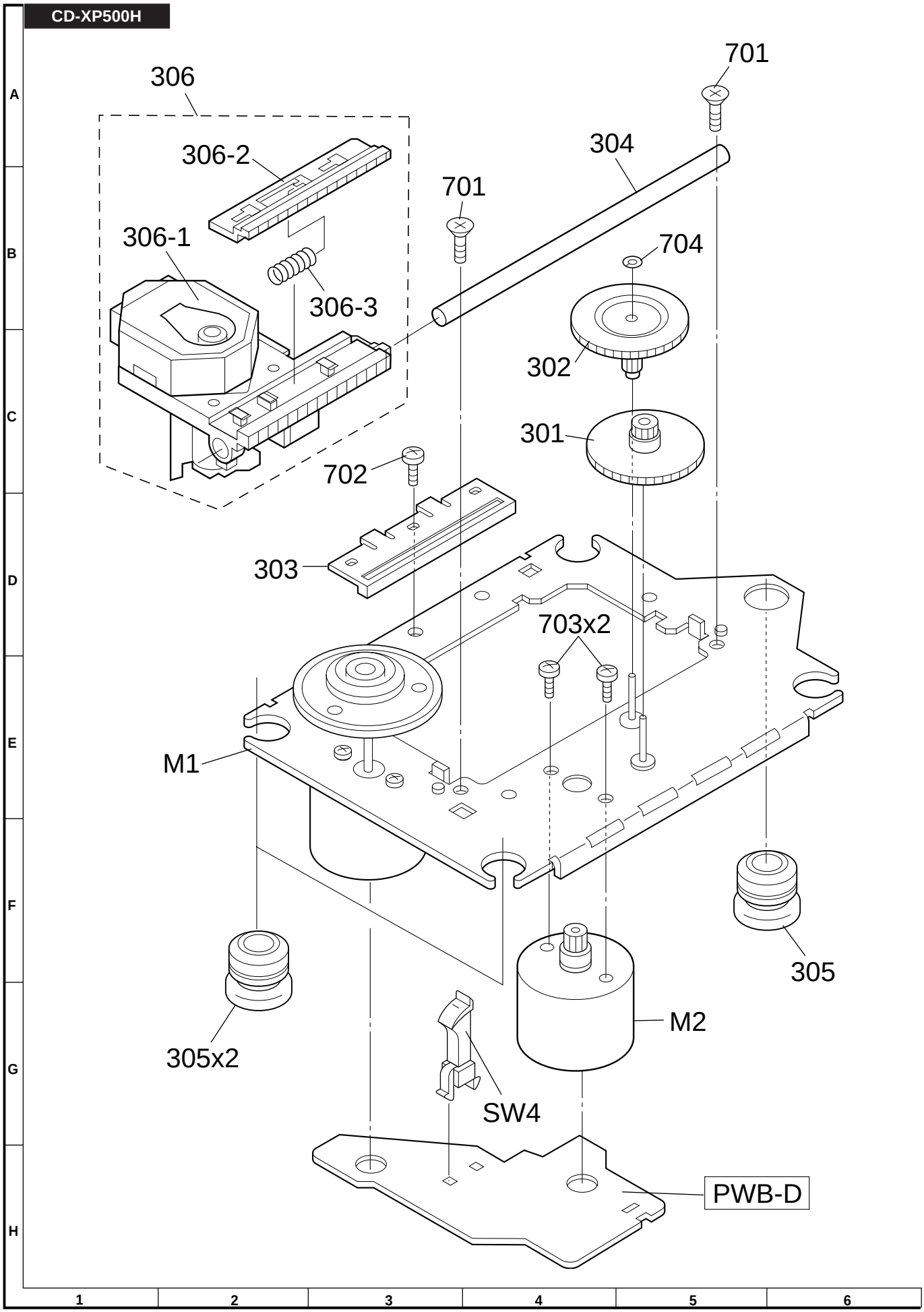


Figure 7 CD MECHANISM EXPLODED VIEW

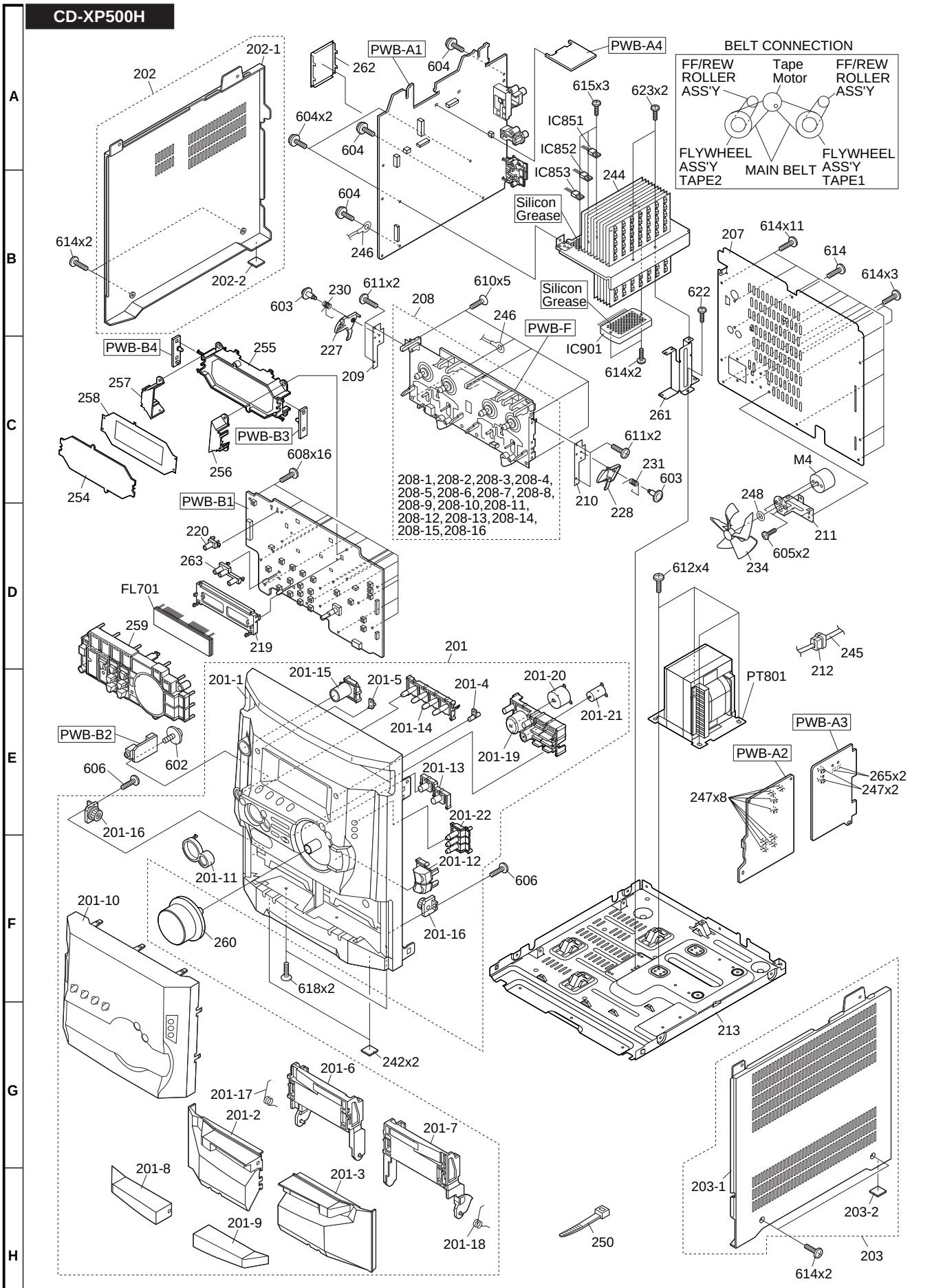


Figure 8 CABINET EXPLODED VIEW (1/2)

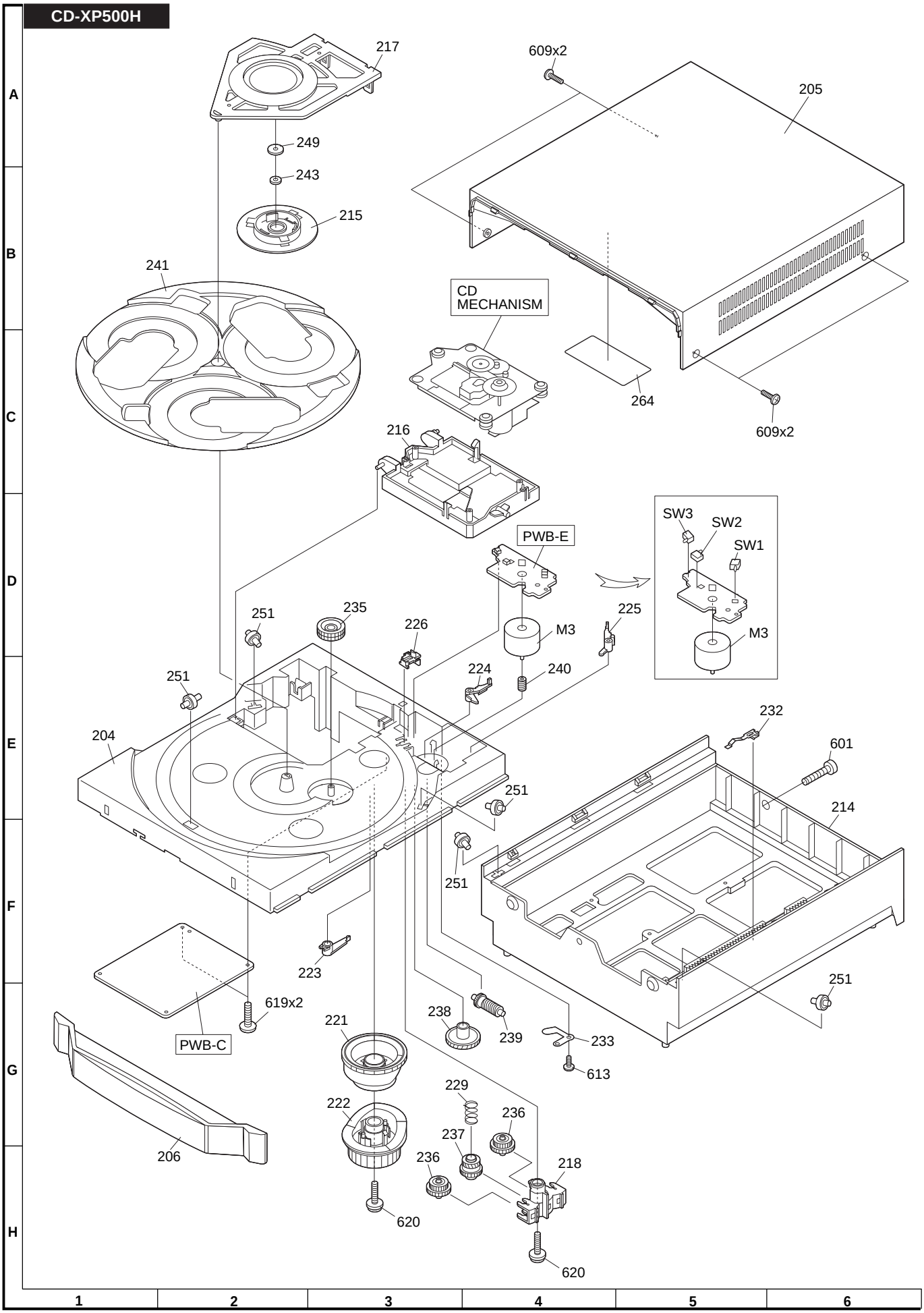


Figure 9 CABINET EXPLODED VIEW (2/2)

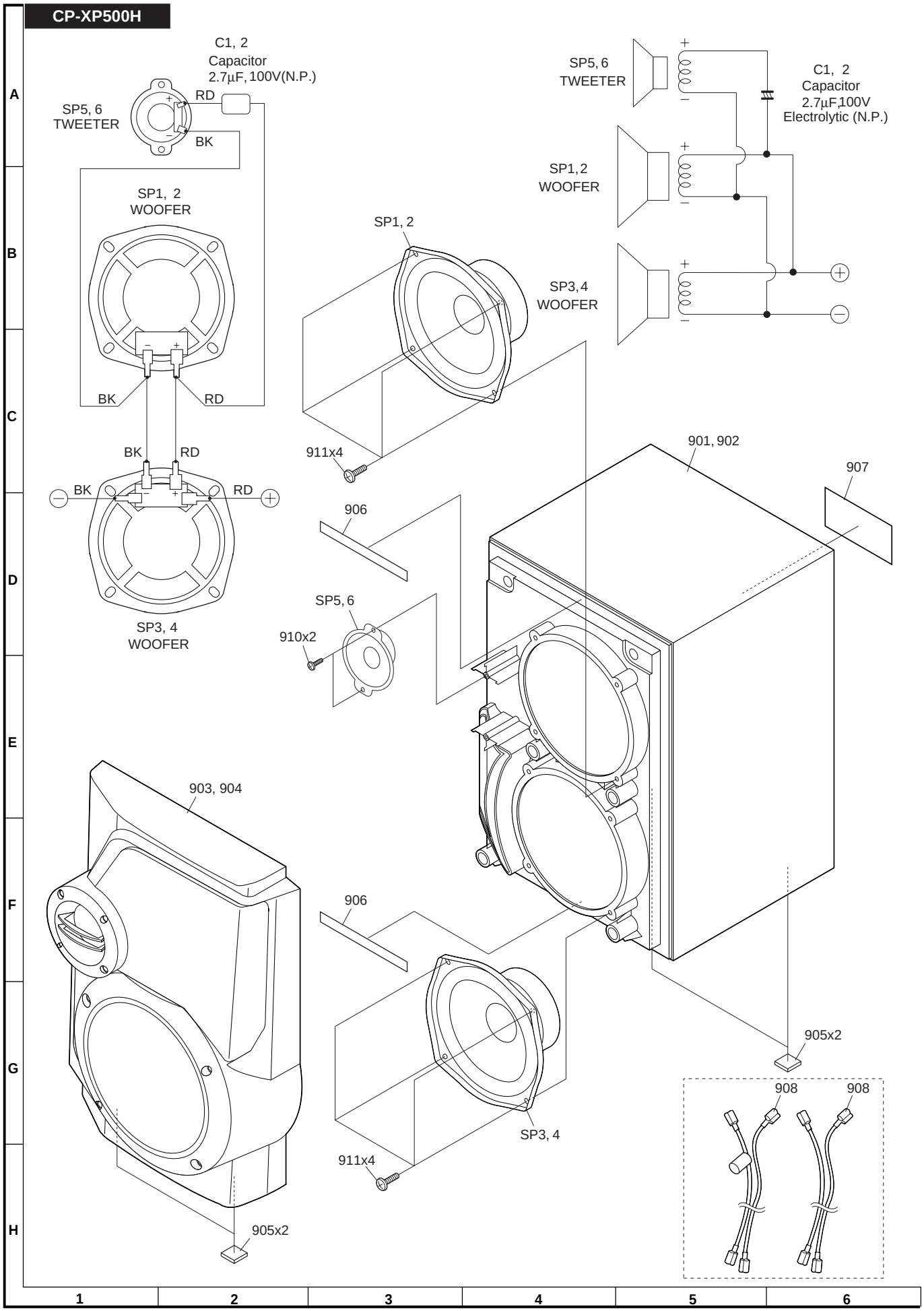


Figure 10 SPEAKER EXPLODED VIEW

— M E M O —

— M E M O —

CD-XP500H

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SHARP CORPORATION
AV Systems Group
Audio Systems Division
Higashihiroshima, Hiroshima 739-0192, Japan

Printed in Japan

A0204-000DS•HA•M

SG